

# CARL JÄGER

Tonindustriebedarf GmbH

Seit 1930

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Clay flours and plastic clay masses | Raw materials for masses and glazes  
Glazes, Engobes, Decorating colours | Ceramic machines and devices  
Tools and auxiliary devices | Ceramic Kilns | Potter's Wheels

# Catalogue 2026 | 2027

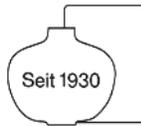
# How to find us ...

Main office:

## CARL JÄGER

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www.carl-jaeger.de

### Opening hours:

**Monday to Fridays** 7.45 - 12.00  
13.00 - 16.30

Because of stock-taking our business is closed from December 19<sup>st</sup> to January 3<sup>rd</sup>.

### Phone hours for orders:

**Monday to Fridays** 9.00 - 11.30  
13.30 - 15.30

### Directions:

Hilgert is situated in the middle between Cologne and Frankfurt. You leave the motorway A 48 (junction Dernbach-Trier) at the exit „Höhr-Grenzhausen“ and follow the signs for „Ransbach-Baumbach“. After 2 km before the entrance to the village Hilgert you turn right into the industrial area.



## Content

General information .....	1	Accessories and auxiliary devices .....	39-40	Potter's Wheels and accessories .....	68-70
Clay flours and grogs .....	2	Banding wheels/stand for modelling .....	41	Jar mill, milling jars, grinding balls .....	71
Casting slips .....	3	Tools .....	42-51	Kiln furniture .....	72-75
Plastic clay masses .....	4-6	Brushes .....	52-53	Raku accessories .....	76
Porcelain .....	7	Sponges, sponge rubber .....	54	Kiln accessories .....	77
Masses and glaze raw materials .....	8-10	Splastic containers .....	55	Kilns .....	78-89
Frits .....	11	MDF shapes for molding .....	56	Controller .....	90
Raku-Glazes .....	13	Auxiliaries for plaster moulds .....	57	Orton cones, PTCR-rings .....	91
Glazes .....	13-27	Moulds .....	58-61	Literature .....	92
Engobes and vitreous slips .....	28-30	Spray-guns / compressor .....	62	Preparation and application of glazes .....	93
Decorating colours .....	31	Glaze spray booth, jet-stream mixer, pump .....	63	Recommendations for firing curves and information on kiln plates .....	94
Stains .....	32-33	Shelf-carriage, small purification plant, slab-roller .....	64	Terms of delivery and payment	
Auxiliary devices .....	34	Slab roller .....	65	Index	
Precious metall compounds and porcelain painters .....	35	Pugmills and vacuum-pugmill .....	66-67		
Auxiliary devices .....	36-37				
Precision balances .....	38				

## A traditional company with vision

For over 95 years, we have been synonymous with high-quality products and reliable service. We use our expertise to supply customers in the ceramics industry as well as potteries, workshops, artists, schools, nurseries and therapeutic institutions, combining traditional craftsmanship with state-of-the-art technology. Quality, sustainability and innovation are the values that characterise our company.

Extensive expertise, reliability and the speedy processing of your orders have made us one of the most important suppliers in the ceramic supplies sector in Europe over the last few decades.

Our highly trained team currently includes a qualified ceramics engineer and a ceramics technician. Competent advice and assistance with problem solving are of great importance to us!

## Prices and deliveries

Our delivery- and payment-conditions are conditional for all our deliveries.

Please be so kind to understand that we need to ask for a **minimum order-amount of EUR 150** for orders from foreign countries due to high liquidation costs and efforts (in exceptional cases also plus EUR 10 for small amounts). While catalogue is valid changes in prices can become necessary. A page with the changed figures is included.

Our own clay and glaze processing facilities and our laboratory enable us to respond to special customer requests and also to produce masses or glazes according to your requirements.

On-site collection is possible, as is shipping throughout Europe!

We look forward to hearing from you and are happy to provide you with advice and assistance!



**Carl Jäger**  
\* 1880 †1960

*Your supplier for all ceramic equipment*

## For pricing information

Please scan the QR code and enter the order number in the search field.

Alternatively, you can find the prices at [shop.carl-jaeger.de](http://shop.carl-jaeger.de)



**Attention frost!** Goods marked thus are not frost resistant and can be shipped in good weather only!



Goods marked thus:  
Delivery is only possible by a **carrier, not by parcel service!**



Picture: www.dpdhl.com



Picture: www.dpd.com

## 2 | Clay flours and grogs

For prices, scan the QR code and enter the order-no.



In order to achieve ceramic bodies the clay flours have to be compounded with other clay flours or grogs (upon request we are glad to give you guidelines for compounding).



Photo:  
Stephan Schmidt KG

### Order-no. **Light clays**

- 02010 **Westerwald white-fat special clay WF** Light-burning, plastic, good plasticity, sintering at approx. 1195-1240°C. To be used for: throwing bodies, fine stoneware, glazes and engobes. Addition in casting-slips to raise the dry strength
- 02030 **Light-burning special casting clay 132/I** Very light-burning, half-fat, good fitting of the glaze, sintering at 1170-1200°C. To be used for: light-burning casting-slips, stone-ware, pressed electric-products, engobes
- 02040 **Westerwald white half-fat clay HF** Light-burning, pourable, good fitting of the glaze, sintering at 1240°C. To be used as additional clay for: casting slips, engobes, throwing bodies, tiles, slabs
- 02050 **Westerwald white lean clay WM** Light-burning, highly valuable shortening means To be used for: casting slips, throwing bodies, engobes, architectural ceramics
- 02170 **Clay-flour GT** White fat, special clay for glazes for all temperatures, ideal for all light glazes because very pure

### Order-no. **Coloured clays**

- 02110 **Odenwald red-burning special casting clay 84/rf** Burns red, half-fat, very good pourability, early sintering at approx. 1025-1085°C, good fitting of the glaze. To be used for: red casting slips and throwing bodies, engobes, floor-tiles, grinding wheels as binding clay, architectural ceramics
- 02120 **Westerwald red-burning clay 178/RI** Brick-red to dark-red burning, half-fat, plastic, good plasticity, sintering at approx. 1150-1170°C. To be used for: art ceramics, floor-tiles, plant-vessel, architectural ceramics, engobes
- 02150 **Yellow-burning clay 159/G** Fat clay, yellow-burning, at approx. 1150°C brownish-yellow, sintering at approx. 1195-1240°C. To be used as addition to white clays and masses, for throwing and pressing and for engobes
- 02160 **Manganese-clay** Meager, firing range 1000-1080°C, sintering at approx. 1055-1085°C To be used for: colouring of engobes, architectural ceramics, art ceramics

### Order-no. **Grogs / Chamottes**

max. temp

02510	<b>Light-burning 91/</b>	0 - 0,1 mm	particle size	1300°C
02520	Light-burning 91/	0 - 0,2 mm	particle size	1300°C
02530	Light-burning 91/	0 - 0,5 mm	particle size	1300°C
02540	Light-burning 91/	0 - 1 mm	particle size	1300°C
02550	Light-burning 91/	0 - 2 mm	particle size	1300°C
02590	<b>Red-burning R/</b>	0 - 0,5 mm	particle size	1250°C
02600	Red-burning R/	0 - 1 mm	particle size	1250°C
02610	Red-burning R/	0 - 2 mm	particle size	1250°C
02720	<b>Black-burning S/</b>	0 - 0,5 mm	particle size	1200°C
02700	Black-burning S/	0,5 - 2 mm	particle size	1200°C



For prices, scan the QR code and enter the order-no.

The casting slips should have a weight of 1,8 kg per liter and should run down viscously from the finger, thus not drop. It is recommended to sieve the masses before use (sieve 52-72 mesh), in order to avoid contaminations, lumps or air bubbles. To increase the fitting of the glaze roughly 7% calcite (already contained in 23/WKFL and 23/WK) can be added to the casting slip relating to the amount of the dry-mass (= roughly 500 g per bucket).

A **brown-burning** casting slip results from adding 2-5% manganese-dioxide to the red-burning mass.

For tiles and plates 20-50% chamottes can be added to the casting slips. In this case the castings slips have to be processed rather rigidly in order to avoid a deposition of the chamottes.



**Hint:** The higher a casting slip is burnt the darker it turns out to be! At a burning temperature of 1050°C all white casting slips are similar to the sample of 23WK/FL.

## Liquid casting slips

Freight forwarding

To avoid a deposit of the liquid casting slips during transport or storage, the masses are rather stiff. Before use the whole content needs to be stirred well and if

necessary diluted with a little water (always necessary in case of a full casting). Delivery is only possible by a **carrier, not by parcel service!** ❄️

	Order-no.	name	firing-colour	firing range	dense at approx.	
	02210	<b>GM/FL</b>	white	1000 - 1250°C	1220 °C	
	02220	<b>21W/FL</b>	white	1000 - 1200°C	1180 °C	
	02200	<b>23WK/FL</b>	white	1000 - 1150°C	---	→ Product will be discontinued
	02230	<b>22R/FL</b>	red	1000 - 1120°C	1080 °C	
	<b>Early sintering masses</b>					
	02350	<b>24F/FL</b>	white	1000 - 1120°C	1080 °C	

## Casting slips as powder

The casting slips as powders are prepared with 38-44% water and 0,1-0,4% Formsil 113/. To the casting slips GM and 22R roughly 0,1-0,2% of the deflocculant CJ has to be added additionally. The exact proportion depends on the water-quality and needs to be found out by

trials. **If you order for the first time please also ask for the deflocculant-manual.** To avoid white flocculants on the burnt, red, un-glazed shards roughly 0,5% barium-carbonate should be added to the casting slip 22/R.

Order-no.	name	firing-colour	firing range	dense at approx.	
02250	<b>GM</b>	white	1000 - 1250°C	1220 °C	
02260	<b>21W</b>	white	1000 - 1200°C	1180 °C	
02280	<b>23WK</b>	white	1000 - 1150°C	---	→ Product will be discontinued
02270	<b>22R</b>	red	1000 - 1120°C	1080 °C	

## Order-no. Deflocculant

14310 **Formsil 113/** Amount to be added: 0,1 to 0,5% in relation to the dry substance; added to the tempering water. Original-package: 25 kg.

14360 **Deflocculant CJ**  
Can be combined with other deflocculants in order to increase the deflocculation. Especially suited for extraction of thixotropy of ceramic casting slips. Original-package: 25 kg

14380 **Sodium Silicate 37/40 Bé** (liquid)  
Can be used together with Formsil 113/; addition of 0,4% (related to the dry substance). Original-package: container of 14 kg

Attention frost!  
Goods thus marked are not frost resistant and can be shipped in good weather only.

# 4 | Plastic clay masses

For prices, scan the QR code and enter the order-no.



Our plastic clay masses, **which we produce ourselves**, consist of a mixture of several clays with or without the addition of fireclay.

The compounds are packaged in 10 kg plastic bags and have a long shelf life when tightly sealed.

Shipping per **DPD**  : **max. 2 bags** per Paket!

 Clay masses are not frost resistant and can be shipped in good weather only!

**Volume discounts** for single-variety purchases of

- 1 bag (≅ 10 kg)
- 10 bags (≅ 100 kg)
- 50 bags (≅ 500 kg)
- 100 bags (≅ 1000 kg)

		1050°C		white image: clay mass 9/ fired at: 1140°C		1250°C	
Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed		
01030	<b>8/ (Steingut)</b>	without chamotte	max. 1150°C	-	✓	→ Will be removed from the program.	
01040	<b>9/</b>	without chamotte	max. 1260°C	1220°C	✓		
01500	<b>9/ZF</b>	20 % 0 - 0,1 mm	max. 1280°C	1220°C	✓		
01590	<b>9/SF</b>	20 % 0 - 0,2 mm	max. 1280°C	1240°C	✓		
01130	<b>9/FS</b>	20 % 0 - 0,5 mm	max. 1280°C	1240°C	✓		
01420	<b>9/P</b>	30 % 0 - 0,5 mm	max. 1160°C	-	✓	→ Will be removed from the program.	
01280	<b>9/M</b>	40 % 0 - 0,5 mm	max. 1280°C	1250°C	✓		
01230	<b>9/S</b>	20 % 0 - 1,0 mm	max. 1280°C	1250°C	-		
01320	<b>9/GS</b>	35 % 0 - 2,0 mm	max. 1280°C	1250°C	-		

## Early sintering masses:

01080	<b>8/F</b>	without chamotte	max. 1120°C	1090°C	✓	Some glazes react with this clay body and may change! We recommend testing the interaction between the clay body and glaze beforehand.	
01180	<b>8F/FS</b>	20 % 0 - 0,5 mm	max. 1120°C	1090°C	✓		

		1050°C		beige with dots image: clay mass 32/FS fired at: 1140°C		1250°C	
Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed		
01060	<b>32/</b>	without chamotte	max. 1260°C	1200°C	-		
01251	<b>32/SF</b>	20 % 0 - 0,2 mm	max. 1260°C	1220°C	-		
01160	<b>32/FS</b>	20 % 0 - 0,5 mm	max. 1260°C	1220°C	-		

The spots form at a burning temperature of approx. 1150°C.

The technical information can only be illustrative. Deviations are possible.



For prices, scan the QR code and enter the order-no.



**Without grogs (.../)**

for throwing and building up small things with little and regular mural thickness

**Minuteley grogged (.../ZF, SF, FS, L)**

for throwing and building up

**Grogged (.../S)**

for building up bigger works

**Highly grogged (.../M)**

for building up bigger works, for plates and Raku.

Largely safe against curling up during drying and burning

**Coarsely grogged(.../GS)**

for rough surfaces, big sculptures and Raku

If you order 1000 kg or more we can alter or produce masses according to your wishes.

**Applications for our clays**



Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01050	<b>12/</b>	without chamotte	max. 1250°C	1200°C	✓
01150	<b>12/FS</b>	20 % 0 - 0,5 mm	max. 1250°C	1200°C	✓



Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01020	<b>4/</b>	without chamotte	max. 1200°C	1150°C	✓
01620	<b>4/ZF</b>	20 % 0 - 0,1 mm	max. 1200°C	1150°C	✓
01550	<b>4/SF</b>	20 % 0 - 0,2 mm	max. 1220°C	1180°C	✓
01120	<b>4/FS</b>	20 % 0 - 0,5 mm	max. 1220°C	1180°C	✓
01270	<b>4/M</b>	40 % 0 - 0,5 mm	max. 1220°C	1200°C	✓
01220	<b>4/S</b>	30 % 0 - 1,0 mm	max. 1220°C	1180°C	-
01310	<b>4/GS</b>	35 % 0 - 2,0 mm	max. 1220°C	1200°C	-



Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01540	<b>10/ZF</b>	20 % 0 - 0,1 mm	max. 1130°C	1080°C	✓
01570	<b>11/SF</b>	20 % 0 - 0,2 mm	max. 1150°C	1100°C	✓
01140	<b>10/L</b>	20 % 0 - 0,5 mm	max. 1130°C	1080°C	✓

# 6 | Plastic clay masses

For prices, scan the QR code and enter the order-no.



## sand-colour

image:  
clay mass 17/GS  
fired at:  
**1140°C**

Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01330	<b>17/GS</b>	20 % 0,5 - 2 mm (black chamotte)	max. 1220°C	1200°C	-



## brown-black

image:  
clay mass 2/FS  
fired at:  
**1100°C**

Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01010	<b>2/</b>	without chamotte	max. 1100°C	1080°C	-
01110	<b>2/FS</b>	20 % 0 - 0,5 mm	max. 1130°C	1120°C	-

Using the brown-black clay can cause changes in the glaze (e. g. bubbles).  
We recommend to test the interaction clay / glaze in advance!



## anthracite-black

image:  
clay mass 18/M  
fired at:  
**1150°C**

Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01090	<b>18/</b>	without chamotte	max. 1220°C	1200°C	-
01290	<b>18/M</b>	40 % 0 - 0,5 mm	max. 1220°C	1200°C	-

## Purchased plastic clay masses



## Indian summer

image:  
clay mass 16/M  
fired at:  
**1140°C**

Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01630	<b>16/M</b>	40 % 0 - 0,5 mm	max. 1350°C	-	✓



## Paperclay

Abbildung ähnlich

gebrannt bei:  
**1140°C**

Order-no.	name	chamotte	firing range ca. 1000°C -	dense at approx.	vacuum-packed
01430	<b>Paperclay</b>	without chamotte	max. 1300°C	-	✓

**Attention:** When burning paperclay the paper burns out. Thus smoke can rise up.  
Therefore, make sure that the oven and the burning-room are well aired until a temperature of at least 450°C is reached.



For prices, scan the QR code and enter the order-no.



Porcelain: Claudia Henkel, Höhr-Grenzhausen

**Porcelain mass Audrey Blackmann**

Sensitive to frost. See note on page 1. ❄️

**1220 - 1280°C** (dense at approx. 1200°C)  
White – translucent firing porcelain quality from England. The porcelain mass is characterised by very good plastic processing properties, a high degree of whiteness and beautiful translucency. Delivery is in plastic bags. Container size approx. 12.5 kg.

Order-no.	firing-colour	volume discounts
01613	white	80 bags
		40 bags
		8 bags
		1 bags

**Plastic porcelain mass, ungrogged**

(German Porcelain)

Sensitive to frost. See note on page 1. ❄️

**1230 - 1300°C** (dense at approx. 1230°C)  
For throwing and building-up of smaller things with thin and even wall-thickness. Delivery in plastic bags of 10 kg.

Order-no.	firing-colour	volume discounts
01610	white	1.000 kg
		500 kg
		100 kg
		10 kg

**Limoges porcelain casting slip (powder)**

**1200 - 1280°C** (dense at approx. 1230°C)  
Normally no deflocculant needs to be added to the porcelain-casting slip since this has already been mixed into the slip. Only very occasionally (i. e. in case of very hard water) 0,05% of a deflocculant CJ can be added. The amount of water needed for the tempering water is approx. 48%. The liter-weight is optimally between 1701-1740 g/L

Order-no.	firing-colour	volume discounts
02360	white	500 kg
		100 kg
		25 kg
		1 kg

**Soft paste china casting slip (liquid)** Freight forwarding

Sensitive to frost. See note on page 1. ❄️

**1230 - 1300°C** (dense at approx. 1250°C)  
Delivered in plastic buckets of 10 kg. Delivery is only possible by a **carrier!**

Order-no.	firing-colour	volume discounts
02231	snow-white	10 bucket
		1 bucket

**Porcelain glaze 12595**

**1250 - 1300°C**  
suitable for reductional and oxidational atmospheres, can be coloured with oxides or stains

Order-no.	firing-colour	quantity discount
05950	transparent glossy	see page 12



Order-no.		original- container kg:	Volume discounts for purchases of 500 kg, original-container, 10 kg, 1 kg
13040	<b>Ball-Clay Hymod</b> <i>Hymod ball clay</i> English, fat clay	25	
	Highly plastic clay, light-burning, increases the plasticity in clay-masses, decreases the flocculation of glazure-slurry (addition roughly 2-5%)		
13060	<b>Bariumcarbonat 125/</b> <i>barium carbonate</i> BaCO <sub>3</sub>	25	
	Flux for matt glazes, allows glass formation in combination with zincoxid and strontiumcarbonat; an addition of roughly 1% in dark-burning masses prevents flocculation		
13071	<b>Basaltmehl 333/</b> <i>basalt powder</i> feldspar	25	
	Matting agent, results in dark glazes, works as shortener which produces different colour-effects in masses		
13080	<b>Bentonit 57/</b> <i>bentonite</i> Al <sub>2</sub> O <sub>3</sub> - 4SiO <sub>2</sub> - H <sub>2</sub> O	25	
	Very plastic, able to swell, an addition of 1-3% in glazes acts as suspending agent, it can also be used as plasticizer (addition: up to 5%) in masses		
13100	<b>Borax 183/</b> <i>borax</i> Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> - 10 H <sub>2</sub> O	25	→ <b>Can only be sold to commercial users.</b> We need your proof.
	Strong flux for low-melting glazes, water-soluble, stimulates the interlocking between glaze and shards		
13120	<b>Braunstein A 45</b> <i>manganese dioxide</i> approx. 78 % MnO <sub>2</sub>	25	
	Roughly 78% manganese-dioxide, causes brown or black colouring in masses and glazes, nice effects can be had by rubbing it into hollows of bisque fired material		
13150	<b>Calziumborat 51/</b> <i>calcium borate</i> CaO - B <sub>2</sub> O <sub>3</sub> - 2H <sub>2</sub> O	25	→ <b>Can only be sold to commercial users.</b> We need your proof.
	High quality flux for low-melting glazes, stresses and fissures are minimized, while burning scattering of the glaze can happen		
13190	<b>China-Clay Grolleg</b> <i>china clay</i> Al <sub>2</sub> O <sub>3</sub> - 2SiO <sub>2</sub> - 2H <sub>2</sub> O	25	
	White-burning English China-Clay which can be used in glazes as well as in masses (high refractory)		
13180	<b>Chromoxid 24/</b> <i>chrome oxide</i> Cr <sub>2</sub> O <sub>3</sub>	25	
	Results in green colours (addition: 1-3%), in tin-glazes a pink colour can be achieved by adding 0,1-0,5%		
13220	<b>Dolomit 5/T</b> <i>dolomite</i> MgCO <sub>3</sub> - CaCO <sub>3</sub>	40	
	If the addition amount ist little: flux, if bigger (5-15%): matting agent		
13250	<b>Eisenoxid 25/ rot</b> <i>iron oxide red</i> (Bayferrox 130 B) 97% Fe <sub>2</sub> O <sub>3</sub>	25	
	Addition of 1-10%, resulting colours: honey-yellow to brown-red to wine-red in darkbrown		
13260	<b>Eisenoxid 31 6/ schwarz</b> <i>iron oxide black</i> Fe <sub>3</sub> O <sub>4</sub>	25	
	Results in somewhat darker colours than Eisenoxid 25/red		
13261	<b>Eisenoxid grob</b> <i>iron oxide coarse</i> 99 % Fe <sub>2</sub> O <sub>3</sub>	25	
	Causes nice effects in glazes, addition: 1-5%		
13305	<b>Feldspat K 2/75</b> <i>potash feldspar</i> (Orthoklas) K <sub>2</sub> O - Al <sub>2</sub> O <sub>3</sub> - 6SiO <sub>2</sub>	50	
	Flux for stoneware-glaze, stoneware-masses and porcelain		
13530	<b>Feldspat Na LF 90</b> <i>soda feldspar</i> (Albit) Na <sub>2</sub> O - Al <sub>2</sub> O <sub>3</sub> - 6SiO <sub>2</sub>	50	
	Somewhat lower melting temperatures than Kali-Feldspar		
13331	<b>Feldspat Ca 429</b> <i>calcium feldspar</i> (Anorthit) CaO - Al <sub>2</sub> O <sub>3</sub> - 2SiO <sub>2</sub>	50	
	For solid matt glazes for stoneware and porcelain		
13471	<b>Illmenit AU</b> <i>illmenite</i> FeO - TiO <sub>3</sub>	25	
	Causes nice effects in glazes, addition amount: 1-15%		
13350	<b>Kalkspat 905/</b> <i>calcite</i> CaCO <sub>3</sub>	25	
	Good flux for glazes and masses, improves the fitting of the glazes in stoneware, minimizes small fissures		



For prices, scan the QR code and enter the order-no.

# Masses- and glaze rawmaterials | 9

Order-no.		original-container kg:	Volume discounts for purchases of 500 kg, original-container, 10 kg, 1 kg
13360	<b>Kaolin 233/ kaolin</b> Extremely white-burning, for glazes and masses, increases scratch hardness, chemical durability of glazes, high viscosity	$Al_2O_3 - 2SiO_2 - 2H_2O$ 25	
13370	<b>Knochenasche 187/ bone ash</b> Flux in glazes (opacifier) and masses (bone-china)	$3Ca_3(PO_4)_2 - CaO$ 25	
13380	<b>Kobaltcarbonat 239/ cobalt carbonate</b> Results in light- to dark-blue colours in glazes and engobes	$CoCO_3$ 15	→ <b>Can only be sold to commercial users.</b> We need your proof.
13430	<b>Kobaltoxid OMG-Standard/ cobalt oxide</b> See above, colours more intensively, addition: roughly 0,2-4%	$Co_3O_4$ 25	
13440	<b>Kreide 190/ chalk; whiting</b> Flux in glazes and masses	$CaCO_3$ 25	
13410	<b>Kupfercarbonat 213/ copper carbonate</b> Results in green colours, colours turquoise in alkali-glazes, in reductions reddish colours are possible	$Cu(OH)_2 - CuCO_3$ 25	
13292	<b>Kupferoxid 216/ copper oxide</b> See above, in case of supersaturation (5% onwards) metallic discharges	$CuO$ 25	
13480	<b>Lavamehl 134/ lava powder</b> For brown glazes with nice surface-effects in stoneware	vulcanic rock 20	
13463	<b>Lithiumcarbonat 104/ lithium carbonate</b> Good flux, increases the shine in the glazes	$Li_2CO_3$ 50	
13505	<b>Magnesiumcarbonat magnesium carbonate</b> Has a high surface-tension, suitable for snake skin glazes, decreases hairline-fissures	$MgCO_3$ 25	
13490	<b>Magnesit 349/, magnesite caustic burnt</b> see "Magnesiumcarbonat" – but inferior effect, medium for producing a matt surface of glazes	90% $MgO$ 25	
13511	<b>Mangancarbonat 185/ manganese carbonate</b> Causes colours from beige to brown, brown violet in alkaliglazes	$MnCO_3$ 25	
13130	<b>Manganor manganor</b> See above Braunstein, however, Manganor is free of identification!	$MnO_2 - SiO_2$ 25	
13520	<b>Manganspinell manganese spinel</b> Is used for brown and black colouring in masses and glazes	$Mn_3O_4$ 25	
13551	<b>Nephelin-Syenit 345/ nepheline syenite</b> High percentage of Kali- and Natronfeldspar, low melting-point, area of use: 1050-1200°C	$1K_2O - 3Na_2O - 4Al_2O_3 - 8SiO_2$ 25	
13561	<b>Nickelcarbonat 270/ nickel carbonate</b> More even colouring than Nickeloxid, generally for green colours, in tin-barium-glazes: blue to red	$NiCO_3$ 15	→ <b>Can only be sold to commercial users.</b> We need your proof.
13620	<b>Quarzmehl W 10 quartz powder</b> Can be used in glazes as well as masses as $SiO_2$ -carrier, increases the melting point, as $SiO_2$ -carrier most important glaze-builder	$SiO_2$ 25	
13630	<b>Quarzsand F 32 quartz sand; silica sand</b> Can be used as filling-material or as protection for kiln plates, particle size roughly 0,1-0,3mm	$SiO_2$ 25	
13635	<b>Mikro.Quarz SF 500 quartz powder</b> serves to lower the CTE (coefficient of thermal expansion) and thus reduces the risk of glaze cracks	$SiO_2$ 25	



Order-no.		original- container kg:	Volume discounts for purchases of 500 kg, original-container, 10 kg, 1 kg
13641	<b>Rutil 200/ rutil</b> Titandioxid which exists in nature polluted with iron oxide, results in beige-brown colours, stimulates matting and cristallization	TiO <sub>2</sub> (natural)	25
13710	<b>Sintermehl 64/ glass powder</b> A glas-flower which causes an early sintering of masses due to its low melting-point (roughly 750°C)		25
13690	<b>Soda calz. 47/ calcined soda</b> The main supplier of Natriumoxid in glazes, water-soluable, Soda can also be used as deflocculant in casting slips	Na <sub>2</sub> - CO <sub>3</sub>	25
13680	<b>Strontiumcarbonat Typ A strontium carbonate</b> Above 1100°C deflocculant, increases shine and hardness of the glazes, decreases pinholes of glazes	SrCO <sub>3</sub>	25
13720	<b>Talkum 22/HK talc</b> Acts against small fissures as addition to earthenware masses, in stoneware it causes a better thermal shock resistance, better than Magnesit because it excludes bubbles and pinholes, can be used to create opaque and matt glazes	3MgO - 4SiO <sub>2</sub> - H <sub>2</sub> O	25
13734	<b>Titandioxid 90/ titanium dioxide</b> For matt and cristal-glazes, improves the acid-resistance and decreases fissures, heavy changing of colour on a foundation containing iron, added in little amount it decreases the solubility of lead, manufactured synthetically	TiO <sub>2</sub> (synthetic)	25
13160	<b>Tonerde calz. 275/ calcined alumina</b> Means for matting of glazes, high melting point, increases the scratch hardness and chemical resistance of glazes	99,5% Al <sub>2</sub> O <sub>3</sub>	25
13740	<b>Tonerdehydrat 276/ alumina hydroxide</b> See above	Al <sub>2</sub> O <sub>3</sub> - 3H <sub>2</sub> O	25
13612	<b>Ulexit U75</b> Alternative for Gerstley Borat, same chemical components, good flux, mainly used for Raku and low firing	Na <sub>2</sub> O - 2CaO - 5B <sub>2</sub> O <sub>3</sub> - 16H <sub>2</sub> O	25
13781	<b>Wollastonit MM 81 wollastonite</b> Natural calciumsilicat, hinders pinholes, good flowing out of the glazes, means for matting of alkali-glazes	CaO - SiO <sub>2</sub>	25
13820	<b>Zinkoxid 90/RS zinc oxide</b> Flux for middle and high temperatures, added in high amount it increases the cristallization, an addition of 20% acts as matting means	ZnO leadfree	25
13830	<b>Zinnoxid TL tin oxide</b> Best opacifier for white glazes; raw material for Majolika-glazes, hinders hairline-fissures	SnO <sub>2</sub>	25
13840	<b>Zirkonsilikat 335/ zirconium silicate</b> Opacifier, can be used as substitute for tinoxide, decreases hairline-fissures	ZrO <sub>2</sub> - SiO <sub>2</sub>	25
13525	<b>Massefarbkörper anthrazit</b> <i>anthracite stain for clay masses</i> With this pigment masses can be coloured Addition: 2 - 10%		25
13528	<b>Massefarbkörper rosa</b> <i>pink stain for clay masses</i> With this pigment masses can be coloured Addition: 2 - 10%		25



For prices, scan the  
QR code and enter  
the order-no.

Order-no.	Segeer-formula	DEP (1) °C	WAK (2) 20-400 °C
12010 <b>Alkalizinkfritte V 15098</b> Boric-tarnished shiny frit with high surface tension, with respective additions for transparent, white and effect-glazes	0,15 K <sub>2</sub> O 0,40 CaO 0,30 ZnO 0,10 Li <sub>2</sub> O 0,05 Na <sub>2</sub> O 0,20 Al <sub>2</sub> O <sub>3</sub> 0,20 B <sub>2</sub> O <sub>3</sub> 2,50 SiO <sub>2</sub>	680	65,90
12020 <b>Alkaliborsilikatfritte M 6640</b> Frit with high coefficient of thermal expansion, suitable for the development of matt, silk-matt and craquelée-glazes as well as for the increase of the coefficient of thermal expansion in glazes	0,20 Na <sub>2</sub> O 0,50 K <sub>2</sub> O 0,30 ZnO 0,20 Al <sub>2</sub> O <sub>3</sub> 0,30 B <sub>2</sub> O <sub>3</sub> 2,00 SiO <sub>2</sub>	582	108,30
12030 <b>Alkalifritte M 1233</b> Similar to frit M 6640, but for shiny glazes, craquelée glazes and blue colours	0,40 Na <sub>2</sub> O 0,30 K <sub>2</sub> O 0,30 CaO 0,03 Al <sub>2</sub> O <sub>3</sub> 2,40 SiO <sub>2</sub>	503	141,00
12100 <b>Zirkonfritte M 130 600</b> Lead-free zircon-frit, suitable for all white glazes and for the fast-burning in the earthenware tile area	0,30 Na <sub>2</sub> O 0,10 K <sub>2</sub> O 0,50 CaO 0,10 MgO 0,30 Al <sub>2</sub> O <sub>3</sub> 0,60 B <sub>2</sub> O <sub>3</sub> 4,00 SiO <sub>2</sub> 0,30 ZrO <sub>2</sub>	690	63,00
12122 <b>Rakufritte M 336 862</b> Especially for raku-glazes and special rit for celadon-glazes; it is suitable for the development of aventurine-glazes because of its high content of sodium and when adding ironoxide	1,00 Na <sub>2</sub> O 0,08 Al <sub>2</sub> O <sub>3</sub> 1,67 B <sub>2</sub> O <sub>3</sub> 2,67 SiO <sub>2</sub>	565	72,80
12160 <b>Zinkmattfritte FM 77 355</b> Zinc-matt-frit containing a high amount of ZnO for the development of matt and effect-glazes of 1050-1260°C	0,10 K <sub>2</sub> O 0,90 ZnO 0,10 Al <sub>2</sub> O <sub>3</sub> 0,8 SiO <sub>2</sub>	740	85
12151 <b>Zink-Barium-Fritte 3128</b> Zinc-Barium-frit containing a high amount of zinc for the development of effect- and crystalline glazes	0,19 CaO 0,54 ZnO 0,08 BaO 0,20 Na <sub>2</sub> O 0,04 Al <sub>2</sub> O <sub>3</sub> 0,11 B <sub>2</sub> O <sub>3</sub> 1,0 SiO <sub>2</sub>	606	74

- (1) dilatometrical softening point, the melting point is 40°C higher  
(2) coefficient of thermal expansion

#### Mass-discount

- Purchase of at least **10 kg** in a container: **15% less**
- Purchase of at least **25 kg** in a container: **25% less**

The **minimum purchase** amount for frits is **1 kg/sort**  
Other frits upon request  
(minimum purchase amount: 50 kg)

# 12 | About glazes, engobes, vitreous slips

The illustrations on the following pages are **no absolutely exact images** of the glazes. Colour and effect of the glazes are dependend on many different factors such as colour of the shard, burning-temperature and duration of burning, the thickness and the means of the

application. All samples were applied to white clay. Some colours tend to show orange-peel / pinholes on black clay. We recommend to try out every use.

**Mixing** the different glazes enlarges the colour-range unlimitedly.

## Application

If no milling jar is at hand the glaze is stirred with water. The relation glaze / water is dependend on the technique of the glazing and differs from glaze to glaze. The glaze-slurry should have a consistency like cream. After stirring we advise to sieve the glaze in a fine sieve (approx. 72 mesh).

541 b	<b>Arktis</b>	4144	<b>Ozelot</b>
631	<b>Kiwi</b>	4134 a	<b>Kosmos</b>
771	<b>Larimar</b>	4104	<b>Stracciatella</b>
983	<b>Confetti</b>	4114	<b>Erdbeer</b>
994	<b>Sahara</b>	4174	<b>Flamenco</b>
0426	<b>Flieder</b>	4204 a	<b>Gecko</b>
S1081	<b>Moosgrün</b>	4244	<b>Tropic</b>
1084 a	<b>Sandstein</b>		
1091 a	<b>Vogelei</b>	1275 a	<b>Blaugrün gespr.</b>
1093 a	<b>Türkis</b>	1276 a	<b>Türkis gespr.</b>
4017	<b>Galaxis</b>	1258	<b>Rosenquarz</b>
4055	<b>Kürbis</b>		

More information about our glazes on our homepage!

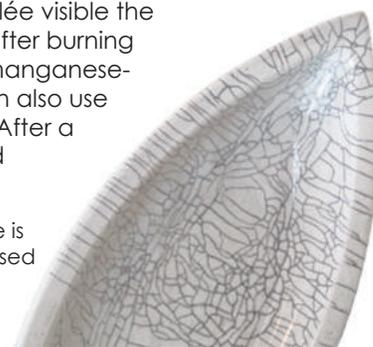
**Transparent glazes** should be applied very thinly. If a bisque-fired shard sucks in too much it can be wetted beforehand.

**Effect glazes** appear especially nice if applied in different degrees of thickness, glazing can be done by spraying, dipping, pouring over or brushing.

### Information on craquelée-glazes

In order to make the craquelée visible the glazes should be brushed after burning with a slurry of water with manganese-oxide or iron-oxide. You can also use our fluid (see on page 12). After a short time of drying the fluid is washed off\*.

\* depending on which of these is being applied it cannot be used anymore for tableware



These glazes should not be sieved or milled since the effects then get lost.

## Labelling

Our ceramic colours are **technically lead-free**. In case of firing a lead-containing glaze or a lead-containing raw material at the same time lead fumes could be transmitted onto the lead-free colour.

If the production conditions are favourable are glazes (engobes, vitreous slips etc.) are **suitable for the use of crockery and drinking vessels** according to DIN/EN 1388-1 and 1388-2 (previously DIN 51031).

Exception:  These glazes are **not acid-resistant!** We advise not to use these glazes for eating and drinking vessels.

Food containing acidic substances can attack fired glazes. Possible health risks due to leaking substances are not checked by us. **According to valid legislation the distributor needs to have the finished product checked by an accredited laboratory.**

### Letters after the glaze number

Glazes (or engobes, vitreous slips etc.) which are labelled "a" or "b" after the glaze number were changed or replaced in the formula.

### Precautions

- avoid dust (only sieve wet)
- do not eat, drink or smoke while glazing
- wash your hands thoroughly after glazing
- do not swallow glazes or bring them into contact with food

## Discount prices

### Powder

Glazes, Engobes, Vitreous slips

Minimum purchase: **1 kg**

Mass-discount:

<b>10 kg</b> Package <b>15% Discount</b>	<b>25 kg</b> Package <b>25% Discount</b>
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**Samples approx. 70 g powder** can be delivered for a protection fee

### Liquid

Glazes, Engobes, Vitreous slips

Minimum purchase: **1 tin (500ml)**

Mass-discount:

Buckets are not generally held on store! Delivery only by carrier. Cannot be delivered via parcel service. We kindly request a respective order in advance. Freight forwarding 

	≈ 12 tins <b>25% Discount</b>
	≈ 20 tins <b>30% Discount</b>

Liquid, ready to use!  
Approx. 1 year durability.



 Liquid-colours are sensitive to frost. See note on page 1.



For prices, scan the QR code and enter the order-no.

Raku is an old Japanese burning-technique (approx. 15<sup>th</sup> century) in which the ceramic is taken out of the kiln while it is still gleeding and then chilled. American ceramic artists added a later after-reduction to the Raku-technique in the 60s.

The burning (850-1050°C) can last up to one hour. As soon as the glaze is melted out and shiny the pieces are taken out of the kiln with long pliers and substituted with new ones.

Quick chilling and sprinkling with water causes zones with small Craquelées, reduction (smoking) causes

changes in colour and lustre-effects. Sawdust, wood fibres, gras, leaves or straw act as reduction-means in different ways. The smoking is usually finished by chilling the piece in cold water in order to fix the result.

With the help of **Raku-frit M 233 864** and frit **M 1233** your own Raku-glazes can be manufactured (see page 11 of the catalogue).

Our clays no. **4/GS** and **9/GS**, **4/M** and **9/M** are suitable for Raku. Sometimes also **8/F** is used (see pages 4 and 5 of the catalogue).

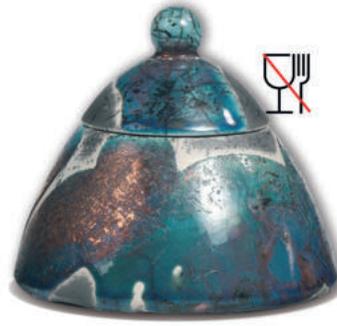
## Glazes 850 - 1050°C (Powder)



Order-no.04590  
**1095 Weiß, craquelée**



Order-no.11610  
**RS 1161 Türkis**



Order-no.11620  
**RS 1162 Indischblau**



Order-no.11630  
**RS 1163 Persischblau**



Order-no.04892  
**RS 336 951 Transparent**



Order-no.11650  
**RS 1165 Gelb**



Order-no.11660  
**RS 1166 Thormalin**



Order-no. 11670  
**RS 1167 Kiebitz**



Order-no.11680  
**RS 1168 Rot**



Order-no.11690  
**RS 1169 Orange**



Order-no.11700  
**RS 1170 Hellgrün**

More raku-equipment  
i. e. kilns on page 76.



We advise **not to use** these glazes **for eating and drinking vessels.**



### Fluid for Craquelée Glazes

To make the craquelée net visible we recommend our fluid. More information on page 34



The transparent glitter-effect-glaze obtains a special depth / intensity if applied on a dark glaze, see picture above on the right side on the glaze A 1007 schwarz glossy.



**04708 Gelb Craquelée** glossy  
Tin of 500 ml  
Order-no.06708

**04706 Grau Craquelée** glossy  
Tin of 500 ml  
Order-no.06706

**04707 Türkis Craquelée** glossy  
Tin of 500 ml  
Order-no.06707

**04711 Rot Craquelée** glossy  
Tin of 500 ml  
Order-no.06711

**04709 Glitzer-Effekt Rot** glossy  
Tin of 500 ml  
Order-no.06709

**04710 Glitzer-Effekt Transparent** glossy  
Tin of 500 ml  
Order-no.06710



For prices, scan the QR code and enter the order-no.

# Liquid glazes 1020 - 1080°C | 15



### Wood effect

Is applied onto an unfired glaze. The thicker the brush application, the greater the effect. In our examples it was applied onto glazes 1007 (Schwarz glossy) 0496 (Weiß glossy) and 4164 (Espresso)



**04705 Türkis gesprenkelt** glossy  
Tin of 500 ml  
Order-no.06705

**04704 Grau gesprenkelt** glossy  
Tin of 500 ml  
Order-no.06704

**04702 Grün gesprenkelt** glossy  
Tin of 500 ml  
Order-no.06702

 **S 04703 Rosé-Gold** glossy  
Tin of 500 ml  
Order-no.06703

**04712 Holz-Effekt** satin-matt  
Tin of 500 ml  
Order-no.06712



The patterns shown were fired on white clay at 1050°C.

 Liquid-glazes are sensitive to frost. See note on page 1.

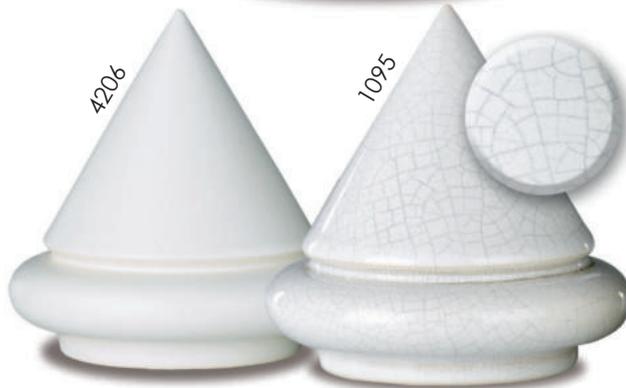


**951 Weiß, zinngetrübt, glossy**  
Order-no. 04070 **Powder** (1 kg)  
Order-no. 06070 **liquid** (500 ml)

**8859 Weiß, glossy**  
Order-no. 04020 **Powder** (1 kg)  
Order-no. 06020 **liquid** (500 ml)

**1010N Weiß, satin-matt**  
Order-no. 04251 **Powder** (1 kg)  
Order-no. 06251 **liquid** (500 ml)

**0496 Weiß, glossy**  
Order-no. 04960 **Powder** (1 kg)  
Order-no. 06960 **liquid** (500 ml)



**4206 Weiß, matt**  
Order-no. 04206 **Powder** (1 kg)  
Order-no. 06206 **liquid** (500 ml)

**1095 Weiß, craquelée, glossy**  
Order-no. 04590 **Powder** (1 kg)  
Order-no. 06590 **liquid** (500 ml)

In order to make the craquelée visible the glazes should be brushed after burning with a slurry of water with manganese-oxide or iron-oxide. You can also use our fluid (see on page 34). After a short time of drying the fluid is washed off. Depending on which of these is being applied it cannot be used anymore for tableware.

**541b Arktis, satin-matt**

Order-no. 04543  
**Powder** (1 kg)

Order-no. 06542  
**liquid** (500 ml)



**1084a Sandstein, satin-matt**

Order-no. 04491  
**Powder** (1 kg)

Order-no. 06491  
**liquid** (500 ml)

**1091a Vogelei, satin-matt**

Order-no. 04550 **Powder** (1 kg)  
Order-no. 06550 **liquid** (500 ml)

 **S 6625a Gelbbraun, matt**  
Order-no. 04430 **Powder** (1 kg)  
Order-no. 06430 **liquid** (500 ml)

**1085b Beige, glossy**

Order-no. 04381 **Powder** (1 kg)  
Order-no. 06381 **liquid** (500 ml)



**994 Sahara, glossy**  
Order-no. 04760 **Powder** (1 kg)  
Order-no. 06740 **liquid** (500 ml)

**953 Sonnengelb, glossy**  
Order-no. 04140 **Powder** (1 kg)  
Order-no. 06140 **liquid** (500 ml)

**0485 Spektralgelb, glossy**  
Order-no. 04850 **Powder** (1 kg)  
Order-no. 06850 **liquid** (500 ml)



For prices, scan the QR code and enter the order-no.

**S 0448 Tinte**, glossy  
Order-no. 04482 **Powder** (1 kg)  
Order-no. 06482 **liquid** (500 ml)

**771 Larimar**, satin-matt  
Order-no. 04771 **Powder** (1 kg)  
Order-no. 06771 **liquid** (500 ml)



**S 4194a Lagune** (craquelée), glossy  
Order-no. 04195 **Powder** (1 kg)  
liquid not available

**1093a Türkis**, satin-matt  
Order-no. 04571 **Powder** (1 kg)  
Order-no. 06571 **liquid** (500 ml)

**8933a Blau**, glossy  
Order-no. 04011 **Powder** (1 kg)  
Order-no. 06011 **liquid** (500 ml)

**S 0479b Aquamarin**, glossy  
Order-no. 04792 **Powder** (1 kg)  
Order-no. 06792 **liquid** (500 ml)

**1006a Kobaltblau**, glossy  
Order-no. 04151 **Powder** (1 kg)  
Order-no. 06151 **liquid** (500 ml)



**S 0472a Jeansblau**, glossy  
Order-no. 04722 **Powder** (1 kg)  
Order-no. 06722 **liquid** (500 ml)

**0452a Royalblau**, satin-matt  
Order-no. 04521 **Powder** (1 kg)  
Order-no. 06521 **liquid** (500 ml)

**S 0482a Meergrün**, glossy  
Order-no. 04821 **Powder** (1 kg)  
Order-no. 06821 **liquid** (500 ml)

**S 0478a Ozeangrün**, glossy  
Order-no. 04781 **Powder** (1 kg)  
Order-no. 06781 **liquid** (500 ml)

**S 671 Malachit**, glossy  
Order-no. 04671 **Powder** (1 kg)  
Order-no. 06671 **liquid** (500 ml)





**631 Kiwi**, satin-matt  
Order-no. 04631 **Powder** (1 kg)  
Order-no. 06631 **liquid** (500 ml)

**4204a Gecko**, satin-matt  
Order-no. 04205 **Powder** (1 kg)  
Order-no. 06205 **liquid** (500 ml)

 **S 1081 Moosgrün**, satin-matt  
Order-no. 04460 **Powder** (1 kg)  
Order-no. 06460 **liquid** (500 ml)

 **S 36969 Grün**, glossy  
Order-no. 04030 **Powder** (1 kg)  
Order-no. 06030 **liquid** (500 ml)

 **S 0434 Reptil**, glossy  
Order-no. 04340 **Powder** (1 kg)  
liquid not available

**4154 Blattgrün**, glossy  
Order-no. 04154 **Powder** (1 kg)  
Order-no. 06154 **liquid** (500 ml)



**952 Honigbraun**, glossy  
Order-no. 04100 **Powder** (1 kg)  
Order-no. 06100 **liquid** (500 ml)

**34062 Braun**, satin-matt  
Order-no. 04160 **Powder** (1 kg)  
Order-no. 06160 **liquid** (500 ml)

**6655 Aventurin**, satin-matt  
Order-no. 04440 **Powder** (1 kg)  
Order-no. 06440 **liquid** (500 ml)

**4044 Sandelholz**, glossy  
Order-no. 04044 **Powder** (1 kg)  
Order-no. 06044 **liquid** (500 ml)

 **S 0436 Silberbronce**, glossy  
Order-no. 04360 **Powder** (1 kg)  
Order-no. 06360 **liquid** (500 ml)



 **S 0481 Ölfleck**, matt  
Order-no. 04810 **Powder** (1 kg)  
Order-no. 06810 **liquid** (500 ml)

**1008a Schwarz**, satin-matt  
Order-no. 04191 **Powder** (1 kg)  
Order-no. 06191 **liquid** (500 ml)

**1007 Schwarz**, glossy  
Order-no. 04080 **Powder** (1 kg)  
Order-no. 06080 **liquid** (500 ml)



For prices, scan the QR code and enter the order-no.

Only suitable for objects which are glazed on one side only!



**0488a Bernstein**, glossy  
Order-no. 04881 **Powder** (1 kg)  
Order-no. 06881 **liquid** (500 ml)

**4144 Ozełot**, matt  
Order-no. 04144 **Powder** (1 kg)  
Order-no. 06144 **liquid** (500 ml)

**4164 Espresso**, glossy  
Order-no. 04164 **Powder** (1 kg)  
Order-no. 06164 **liquid** (500 ml)



 **4264a Perlmutter**, glossy  
Order-no. 04265 **Powder** (1 kg)  
Order-no. 06265 **liquid** (500 ml)



**0429b Sumatra**, satin-matt  
Order-no. 04293 **Powder** (1 kg)  
Order-no. 06293 **liquid** (500 ml)



**4104 Stracciatella**, matt  
Order-no. 04104 **Powder** (Preis/kg)  
Order-no. 06104 **liquid** (Preis/Dose)



**4214 Grau**, glossy  
Order-no. 04214 **Powder** (1 kg)  
Order-no. 06214 **liquid** (500 ml)



 **4014 Gold**, glossy  
Order-no. 04014 **Powder** (1 kg)  
Order-no. 06014 **liquid** (500 ml)



 **4124a Eisen**, satin-matt  
Order-no. 04125 **Powder** (1 kg)  
Order-no. 06125 **liquid** (500 ml)



**4244 Tropic**, glossy  
Order-no. 04244 **Powder** (1 kg)  
Order-no. 06244 **liquid** (500 ml)

**4035 Jade**, satin-matt  
Order-no. 04035 **Powder** (1 kg)  
Order-no. 06035 **liquid** (500 ml)

**4057 Atoll**, glossy  
Order-no. 04057 **Powder** (1 kg)  
Order-no. 06057 **liquid** (500 ml)

**4234 Mais**, glossy  
Order-no. 04234 **Powder** (1 kg)  
Order-no. 06234 **liquid** (500 ml)

**4055 Kürbis**, satin-matt  
Order-no. 04055 **Powder** (1 kg)  
Order-no. 06055 **liquid** (500 ml)

**4114 Erdbeer**, glossy  
Order-no. 04114 **Powder** (1 kg)  
Order-no. 06114 **liquid** (500 ml)



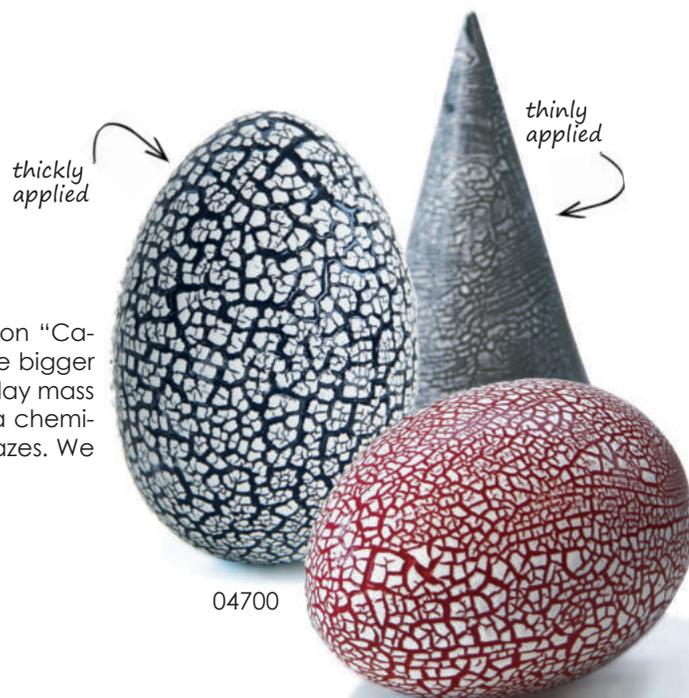
**4184a Heidelbeer**, glossy  
Order-no. 04185 **Powder** (1 kg)  
Order-no. 06185 **liquid** (500 ml)

**4094 Cassis**, glossy  
Order-no. 04094 **Powder** (1 kg)  
Order-no. 06094 **liquid** (500 ml)

**Snake skin - effect white**

This glaze is be applied on an unfired glaze. In our example on "Calypso" and "Schwarz" glossy. The thicker the application is, the bigger the individual glaze dots appear. The application on a black clay mass (without glaze underneath) is also very striking. Since there is a chemical reaction of the two glazes, it does not work with all the glazes. We recommend to try out every use.

**04700 Schlangenhaut Effekt weiß** glossy  
Order-no. 04700 **Powder** (1 kg)  
Order-no. 06700 **liquid** (500 ml)





For prices, scan the QR code and enter the order-no.

**8044 Türkis**, glossy  
Order-no. 04050 **Powder** (1 kg)  
Order-no. 06050 **liquid** (500 ml)

**0431 Apfelgrün**, glossy  
Order-no. 04310 **Powder** (1 kg)  
Order-no. 06310 **liquid** (500 ml)

**0430 Orange**, glossy  
Order-no. 04300 **Powder** (1 kg)  
Order-no. 06300 **liquid** (500 ml)



 **S 10461 Apfelsine**, glossy  
Order-no. 04461 **Powder** (1 kg)  
Order-no. 06461 **liquid** (500 ml)

 **S 0487 Mohnblume**, glossy  
Order-no. 04870 **Powder** (1 kg)  
Order-no. 06870 **liquid** (500 ml)

**4174 Flamenco**, glossy  
Order-no. 04174 **Powder** (1 kg)  
Order-no. 06174 **liquid** (500 ml)

**0456 Calypsorot**, glossy  
Order-no. 04560 **Powder** (1 kg)  
Order-no. 06560 **liquid** (500 ml)

**741 Lava**, glossy  
Order-no. 04741 **Powder** (1 kg)  
Order-no. 06741 **liquid** (500 ml)

**950 Rubinrot**, glossy  
Order-no. 04060 **Powder** (1 kg)  
Order-no. 06060 **liquid** (500 ml)



**0426 Flieder gespr.**, satin-matt  
Order-no. 04260 **Powder** (1 kg)  
Order-no. 06260 **liquid** (500 ml)

**4224 Rosa**, glossy  
Order-no. 04224 **Powder** (1 kg)  
Order-no. 06224 **liquid** (500 ml)

**983 Confetti**, glossy  
Order-no. 04650 **Powder** (1 kg)  
Order-no. 06630 **liquid** (500 ml)

## 22 | Glazes 1020 - 1080°C



Pluto



**4315 Pluto, glossy**  
Order-no. 04315 **Powder** (1 kg)  
Order-no. 06315 **liquid** (500 ml)

Neptun



**4285 Neptun, glossy**  
Order-no. 04285 **Powder** (1 kg)  
Order-no. 06285 **liquid** (500 ml)

Saturn



**4305 Saturn, glossy**  
Order-no. 04305 **Powder** (1 kg)  
Order-no. 06305 **liquid** (500 ml)

Jupiter



**4325 Jupiter, glossy**  
Order-no. 04325 **Powder** (1 kg)  
Order-no. 06325 **liquid** (500 ml)

The patterns shown were fired on white clay at 1050°C.



For prices, scan the QR code and enter the order-no.



4017

**4017 Galaxis, glossy**  
Order-no. 04017 **Powder** (1 kg)  
Order-no. 06017 **liquid** (500 ml)



4134a

**4134a Kosmos, glossy**  
Order-no. 04135 **Powder** (1 kg)  
Order-no. 06135 **liquid** (500 ml)



4225

**4225 Seladongrün, glossy**  
Order-no. 04225 **Powder** (1 kg)  
Order-no. 06225 **liquid** (500 ml)



4275

**4275 Lichtblau, glossy**  
Order-no. 04275 **Powder** (1 kg)  
Order-no. 06275 **liquid** (500 ml)



4335

**4335 Eisvogel, glossy**  
Order-no. 04335 **Powder** (1 kg)  
Order-no. 06335 **liquid** (500 ml)

## Transparent and colourless glazes

**60311 Transparent, glossy**  
Order-no. 04040 **Powder** (1 kg)  
Order-no. 06040 **liquid** (500 ml)

Our recommendation for overglazing engobes to achieve the best colour luminosity, as well as for overglazing white, red and dark bodies to allow the pure, unadulterated body colour to shine through without veiling.

**1001a Transparent, glossy**  
Order-no. 04110 **Powder** (1 kg)  
Order-no. 06110 **liquid** (500 ml)

Our recommendation for colouring with colourants (see page 32) or oxides to achieve the best colour luminosity. It is also suitable for overglazing white, red and dark bodies, but tends to cause slight to severe veiling on dark bodies, depending on the thickness of application.

**0497 Transparent, glossy**  
Order-no. 04970 **Powder** (1 kg)  
Order-no. 06970 **liquid** (500 ml)

The most affordable transparent glaze, which forms only a very slight veil on white, red and dark bodies, depending on the thickness of application. It is also particularly suitable for colouring with colourants, especially in red tones.

**4421 Farblos, satin-matt**  
Order-no. 04421 **Powder** (1 kg)  
Order-no. 06421 **liquid** (500 ml)

**38875 Farblos, satin-matt**  
Order-no. 04180 **Powder** (1 kg)  
liquid not available

**955 Farblos, matt**  
Order-no. 04240 **Powder** (1 kg)  
liquid not available

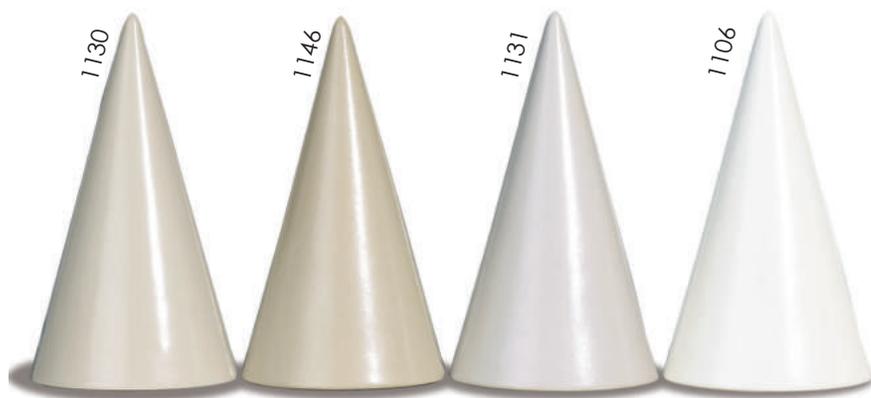
**4120 Farblos, matt**  
Order-no. 04120 **Powder** (1 kg)  
liquid not available

**Satin-matt** or **matt glazes** always tend to form a **haze** depending on the thickness of the application and can therefore appear milky.

→ **Our recommendation:**  
Apply transparent and colourless glazes only once (thinly) to reduce or mitigate the formation of haze.



The samples show the glazes on white, red and black clay.



**1130 Transparent**, glossy  
Order-no. 05300 **Powder** (1 kg)  
Order-no. 07300 **liquid** (500 ml)

**1146 Farblos**, satin-matt  
Order-no. 05460 **Powder** (1 kg)  
Order-no. 07460 **liquid** (500 ml)

**1131 Weiß**, glossy  
Order-no. 05310 **Powder** (1 kg)  
Order-no. 07310 **liquid** (500 ml)

**1106 Zirkonweiß**, glossy  
Order-no. 05060 **Powder** (1 kg)  
Order-no. 07060 **liquid** (500 ml)

**1127 Perlmutter**, satin-matt  
Order-no. 05270 **Powder** (1 kg)  
Order-no. 07270 **liquid** (500 ml)

**1123a Zitronengelb**, satin-matt  
Order-no. 05231 **Powder** (1 kg)  
Order-no. 07231 **liquid** (500 ml)

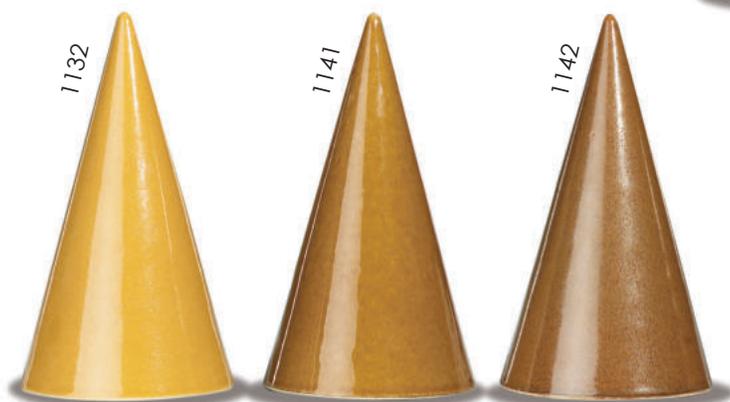
**1110 Samba**, glossy  
Order-no. 05100 **Powder** (1 kg)  
Order-no. 07100 **liquid** (500 ml)



**1132 Dottergelb**, satin-matt  
Order-no. 05320 **Powder** (1 kg)  
Order-no. 07320 **liquid** (500 ml)

**1141 Honigbraun**, glossy  
Order-no. 05410 **Powder** (1 kg)  
Order-no. 07410 **liquid** (500 ml)

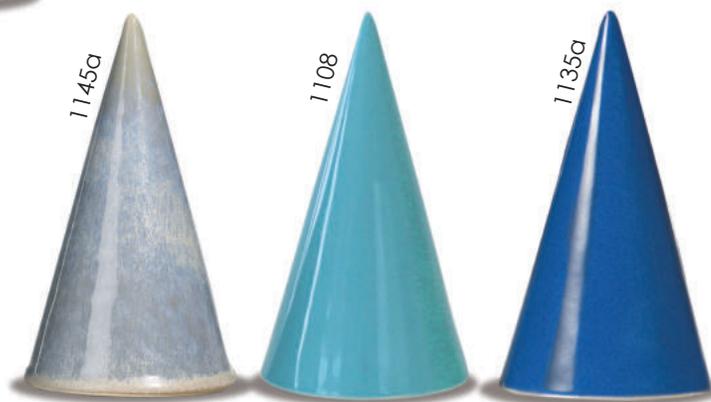
**1142 Haselnuss**, satin-matt  
Order-no. 05420 **Powder** (1 kg)  
Order-no. 07420 **liquid** (500 ml)



**1145a Blaugrau**, glossy  
Order-no. 05450 **Powder** (1 kg)  
Order-no. 07450 **liquid** (500 ml)

**1108 Türkis**, glossy  
Order-no. 05080 **Powder** (1 kg)  
Order-no. 07080 **liquid** (500 ml)

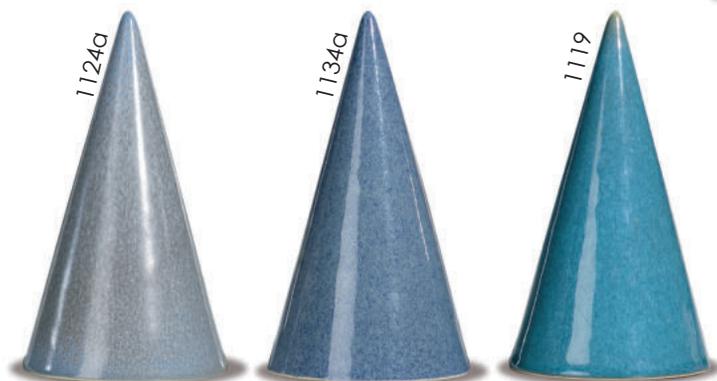
**1135a Tiefblau**, glossy  
Order-no. 05351 **Powder** (1 kg)  
Order-no. 07351 **liquid** (500 ml)



**1124a Stahlblau**, satin-matt  
Order-no. 05241 **Powder** (1 kg)  
Order-no. 07241 **liquid** (500 ml)

**1134a Taubenblau**, satin-matt  
Order-no. 05341 **Powder** (1 kg)  
Order-no. 07341 **liquid** (500 ml)

**1119 Eisblau**, glossy  
Order-no. 05190 **Powder** (1 kg)  
Order-no. 07190 **liquid** (500 ml)





For prices, scan the QR code and enter the order-no.

**1116 Kirschrot**, glossy  
Order-no. 05160 **Powder** (1 kg)  
Order-no. 07160 **liquid** (500 ml)

**1121 Vulkanrot**, satin-matt  
Order-no. 05210 **Powder** (1 kg)  
Order-no. 07210 **liquid** (500 ml)

**1117a Weinrot**, satin-matt  
Order-no. 05171 **Powder** (1 kg)  
Order-no. 07171 **liquid** (500 ml)



**1125 Moos**, satin-matt  
Order-no. 05250 **Powder** (1 kg)  
Order-no. 07250 **liquid** (500 ml)

**1137a Kupfergrün**, satin-matt  
Order-no. 05370 **Powder** (1 kg)  
Order-no. 07370 **liquid** (500 ml)

**1113a Zypresse**, satin-matt  
Order-no. 05131 **Powder** (1 kg)  
Order-no. 07131 **liquid** (500 ml)

**1107 Hellgrün**, glossy  
Order-no. 05070 **Powder** (1 kg)  
Order-no. 07070 **liquid** (500 ml)

**1118 Flaschengrün**, glossy  
Order-no. 05180 **Powder** (1 kg)  
Order-no. 07180 **liquid** (500 ml)

**1122 Tannengrün**, satin-matt  
Order-no. 05220 **Powder** (1 kg)  
Order-no. 07220 **liquid** (500 ml)



**1128 Nachtblau**, glossy  
Order-no. 05280 **Powder** (1 kg)  
Order-no. 07280 **liquid** (500 ml)

**1144 Metall-schwarz**, satin-matt  
Order-no. 05440 **Powder** (1 kg)  
Order-no. 07440 **liquid** (500 ml)

**1109 Schwarz**, glossy  
Order-no. 05090 **Powder** (1 kg)  
Order-no. 07090 **liquid** (500 ml)



**S 1105a Bronze antik**, matt  
Order-no. 05051 **Powder** (1 kg)  
Order-no. 07051 **liquid** (500 ml)

## Transparent glaze 1150 - 1200°C for colourizing (i. e. with oxids or stains)



**60273 Transparent**, glossy  
Order-no. 05480 **Powder** (1 kg)  
liquid not available



**Not illustrated:**

**1290 Transparent, glossy**  
 Order-no. 05900 **Powder** (1 kg)  
 Order-no. 07590 **liquid** (500 ml)

**1250a Transparent, satin-matt**  
 Order-no. 05501 **Powder** (1 kg)  
 Order-no. 07550 **liquid** (500 ml)

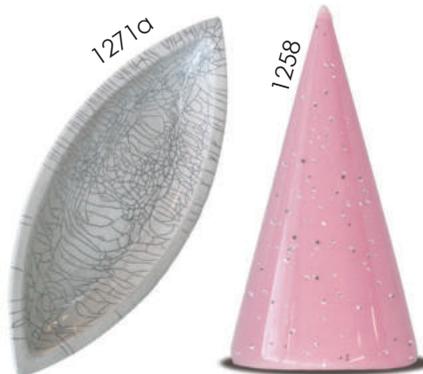
**1264 Farblos, matt**  
 Order-no. 05640 **Powder** (1 kg)  
 Order-no. 07564 **liquid** (500 ml)

**1251a Weiß, glossy**  
 Order-no. 05511 **Powder** (1 kg)  
 Order-no. 07551 **liquid** (500 ml)

**1257 Weiß, matt**  
 Order-no. 05570 **Powder** (1 kg)  
 Order-no. 07557 **liquid** (500 ml)

 **S 1283a Kristallweiß, satin-matt**  
 Order-no. 05830 **Powder** (1 kg)  
 Order-no. 07583 **liquid** (500 ml)

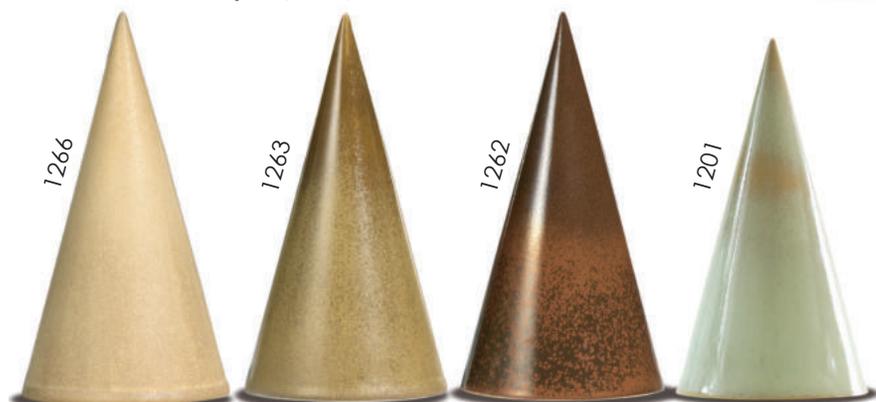
**1256a Creme Metalleffekt, glossy**  
 Order-no. 05561 **Powder** (1 kg)  
 Order-no. 07556 **liquid** (500 ml)



**1271a Weiß, craquelée, glossy**  
 Order-no. 05710 **Powder** (1 kg)  
 Order-no. 07571 **liquid** (500 ml)

*Please see information advice on page 12!*

**1258 Rosenquarz, glossy**  
 Order-no. 05580 **Powder** (1 kg)  
 Order-no. 07558 **liquid** (500 ml)



**1266 Beigebraun, matt**  
 Order-no. 05660 **Powder** (1 kg)  
 Order-no. 07566 **liquid** (500 ml)

**1263 Hellbraun, satin-matt**  
 Order-no. 05630 **Powder** (1 kg)  
 Order-no. 07563 **liquid** (500 ml)

**1262 Havanna, glossy**  
 Order-no. 05620 **Powder** (1 kg)  
 Order-no. 07562 **liquid** (500 ml)

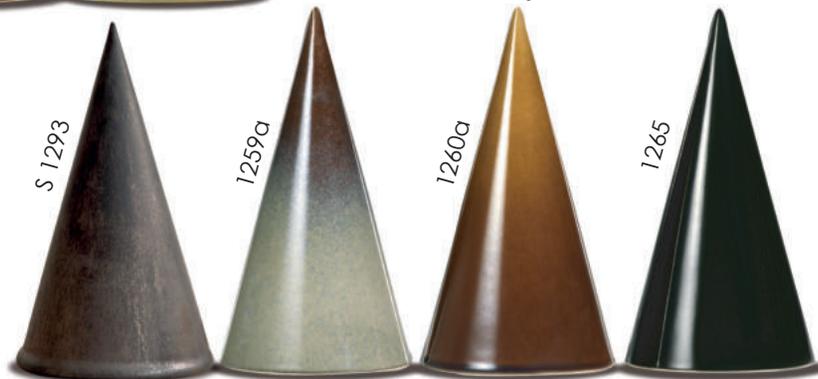
**1201 Pfefferminz, glossy**  
 Order-no. 05001 **Powder** (1 kg)  
 Order-no. 07501 **liquid** (500 ml)

 **S 1293 Rustica, satin-matt**  
 Order-no. 05930 **Powder** (1 kg)  
 Order-no. 07593 **liquid** (500 ml)

**1259a Rotbraun-grau-Effekt, glossy**  
 Order-no. 05591 **Powder** (1 kg)  
 Order-no. 07559 **liquid** (500 ml)

**1260a Bernstein, glossy**  
 Order-no. 05601 **Powder** (1 kg)  
 Order-no. 07560 **liquid** (500 ml)

**1265 Schwarz, glossy**  
 Order-no. 05650 **Powder** (1 kg)  
 Order-no. 07565 **liquid** (500 ml)

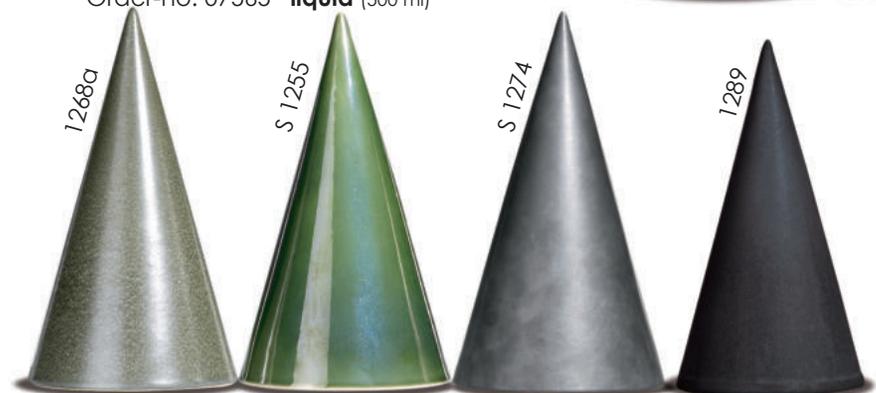


**1268a Steingrau, satin-matt**  
 Order-no. 05681 **Powder** (1 kg)  
 Order-no. 07568 **liquid** (500 ml)

 **S 1255 Grün, glossy**  
 Order-no. 05550 **Powder** (1 kg)  
 Order-no. 07555 **liquid** (500 ml)

 **S 1274 Anthrazit, matt**  
 Order-no. 05740 **Powder** (1 kg)  
 Order-no. 07574 **liquid** (500 ml)

**1289 Schwarz, matt**  
 Order-no. 05890 **Powder** (1 kg)  
 Order-no. 07589 **liquid** (500 ml)





For prices, scan the QR code and enter the order-no.

**1273 Orange**, glossy  
Order-no. 05730 **Powder** (1 kg)  
Order-no. 07573 **liquid** (500 ml)

**1287 Signalgelb**, glossy  
Order-no. 05870 **Powder** (1 kg)  
Order-no. 07587 **liquid** (500 ml)

**S 1254 Karibik**, matt  
Order-no. 05540 **Powder** (1 kg)  
Order-no. 07554 **liquid** (500 ml)

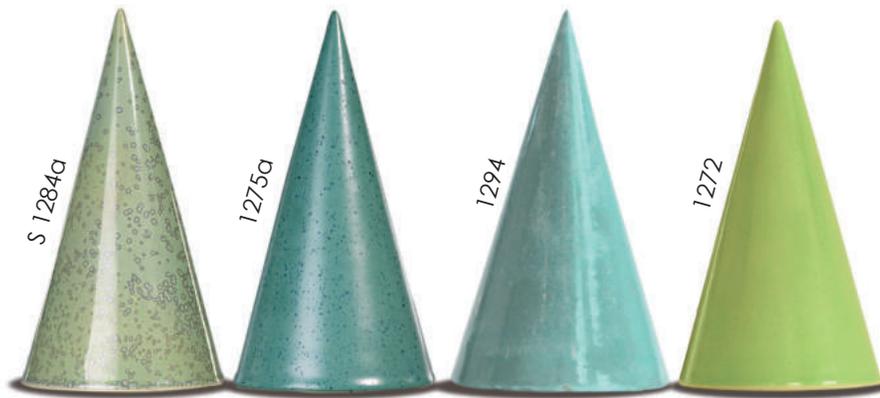


**S 1284a Kristallgrün**, glossy  
Order-no. 05840 **Powder** (1 kg)  
Order-no. 07584 **liquid** (500 ml)

**1275a Blaugrün gesprenkelt**, satin-matt  
Order-no. 05751 **Powder** (1 kg)  
Order-no. 07575 **liquid** (500 ml)

**1294 Bergsee**, glossy  
Order-no. 05940 **Powder** (1 kg)  
Order-no. 07594 **liquid** (500 ml)

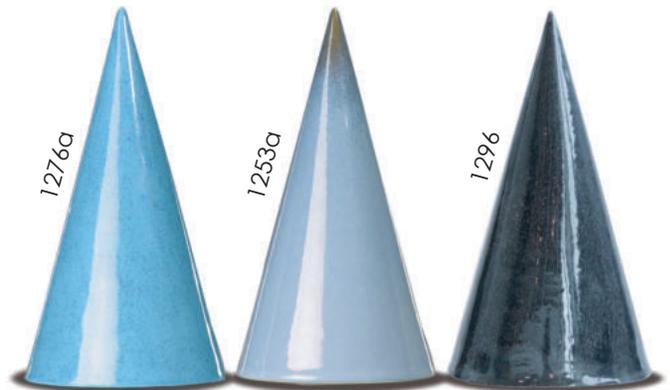
**1272 Hellgrün**, glossy  
Order-no. 05720 **Powder** (1 kg)  
Order-no. 07572 **liquid** (500 ml)



**1276a Türkis gesprenkelt**, glossy  
Order-no. 05761 **Powder** (1 kg)  
Order-no. 07576 **liquid** (500 ml)

**1253a Hellblau**, glossy  
Order-no. 05531 **Powder** (1 kg)  
Order-no. 07553 **liquid** (500 ml)

**1296 Tiefsee**, glossy  
Order-no. 05960 **Powder** (1 kg)  
Order-no. 07596 **liquid** (500 ml)



**1252a Blau**, glossy  
Order-no. 05521 **Powder** (1 kg)  
Order-no. 07552 **liquid** (500 ml)

**1280b Azurblau**, satin-matt  
Order-no. 05801 **Powder** (1 kg)  
Order-no. 07680 **liquid** (500 ml)

**1267a Blaugrau**, satin-matt  
Order-no. 05671 **Powder** (1 kg)  
Order-no. 07567 **liquid** (500 ml)

**S 1279 Denim**, matt  
Order-no. 05790 **Powder** (1 kg)  
Order-no. 07579 **liquid** (500 ml)



**1292 Magma**, glossy  
Order-no. 05920 **Powder** (1 kg)  
Order-no. 07592 **liquid** (500 ml)

**1291 Spanischrot**, glossy  
Order-no. 05910 **Powder** (1 kg)  
Order-no. 07591 **liquid** (500 ml)

**1288 Chilirot**, glossy  
Order-no. 05880 **Powder** (1 kg)  
Order-no. 07588 **liquid** (500 ml)

**1281a Bordeauxrot**, glossy  
Order-no. 05811 **Powder** (1 kg)  
Order-no. 07681 **liquid** (500 ml)





## Engobes 1000 - 1150°C (Powder)

Our engobes are manufactured of many different raw materials and should be applied on to **leather-hard shards**. They can be applied with brushes, can be dipped, can be sprayed or applied with an engobe-slip-trailer. After bisque-firing usually a coating with a transparent glaze follows. We recommend

**glaze 60311** in order to achieve the most intensive shining of the colour.

**The colour-samples show the engobe on the upper half without and on the lower half with a transparent glaze.**



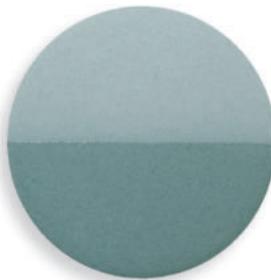
**E 1 Ziegelrot**

Order-no.  
11010



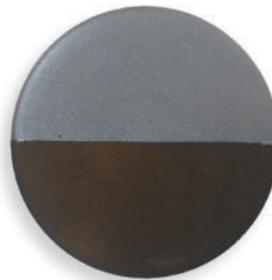
**E 2 Weiß**

Order-no.  
11020



**E 3 Grau**

Order-no.  
11030



**E 4b Schwarz**

Order-no.  
11041



**E 5 Grün**

Order-no.  
11050



**E 7b Blau**

Order-no.  
11072



**E 8 Gelb**

Order-no.  
11080



**E 9 Orange**

Order-no.  
11017



**E 10 Rot**

Order-no.  
11014



**E 11 Türkis**

Order-no.  
11054



Order-no. 11301

## Set engobe-paint-bottles 1000 - 1150°C

Ideal for kindergardens, schools, therapeutic institutions, hobby or simply to try them out. The set consists of 6 bottles filled with approx. 20 g of our above mentioned engobes E 2, E 4b, E 5, E 7a, E 8 und E 10. Add approx. 20 ml of water and shake well. The application is done with the help of 4 canulas with different diameters (1,2 | 1,5 | 1,6 | 1,8 mm) also contained in the set.

## Weiß

Order-no. 11092



## Potter's engobe 1100 - 1300°C

The potter's engobe is a typical engobe and should be applied on to leather-hard shards or if necessary on to dried shards. Colourings with stains and colour-oxides are possible. After drying bisque firing should be made. As transparent glazes we recommend our glaze 1290 (1200-1250°C) and our glaze 1250 for temperatures above 1250°C (see page 26).

## Weiß

Order-no. 11090



## Stoneware engobe 1200 - 1300°C

The stoneware engobe (porcelain engobe) is very meager and should be applied on to bisque-fired shards. Colourings with stains and colour-oxides lead to good results. After drying of the stoneware engobes a coating with a transparent glaze should follow. We recommend our glaze 1290 (1200-1250°C) and our glaze 1250 for temperatures above 1250°C (see page 26).



For prices, scan the QR code and enter the order-no.

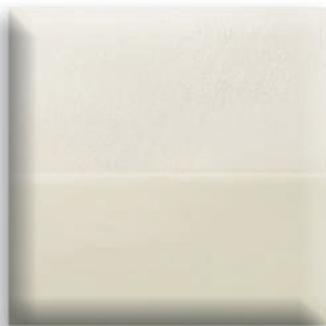
# Liquid potter's engobes 1100 - 1300°C | 29

We developed these liquid potter's engobes on the basis of our potter's engobe (page 24).

**They are delivered in tins of 500 ml.**

They should be applied on to leather-hard shards or if necessary on to dried shards. After drying bisque firing should be made. As transparent glazes we recommend our glaze 1290 (1200-1250°C) and our glaze 1250 for temperatures above 1250°C (see page 26).

**The colour-samples show the potter's engobe on the upper half without and on the lower half with a transparent glaze. Burnt at 1250°C.**



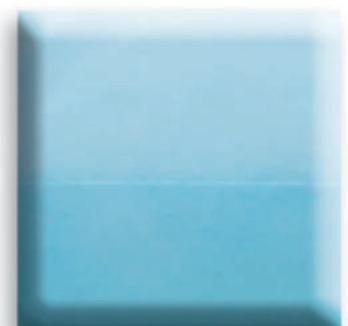
**TE 30** Weiß



**TE 31** Gelb



**TE 32** Hellgrün



**TE 33** Türkis



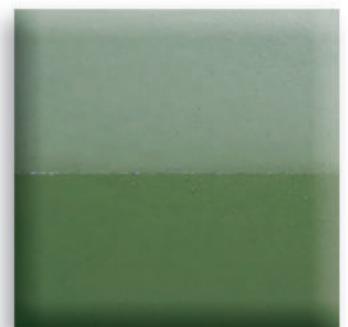
**TE 34** Grau



**TE 35** Orange



**TE 36** Rot



**TE 37** Dunkelgrün



**TE 38** Blau



**TE 39** Schwarz

- Order-no. 07990 **TE 30 Weiß**
- Order-no. 07991 **TE 31 Gelb**
- Order-no. 07992 **TE 32 Hellgrün**
- Order-no. 07993 **TE 33 Türkis**
- Order-no. 07994 **TE 34 Grau**
- Order-no. 07995 **TE 35 Orange**
- Order-no. 07996 **TE 36 Rot**
- Order-no. 07997 **TE 37 Dunkelgrün**
- Order-no. 07998 **TE 38 Blau**
- Order-no. 07999 **TE 39 Schwarz**



Vitreous slips develop their own shining. Usually they do not need to be coated. In order to achieve even stronger colours a coating with a transparent glaze is possible. Vitreous slips are applied on to biscuitted shards.

The range of colours can be optionally increased by colouring the white vitreous slip with oxides and stains.

Also available as liquid vitreous slip (tin of 500 ml).

burnt at  
1050°C



burnt at  
1150°C



## SE 11 Weiß

Order-no. 11310  
**Powder** (1 kg)

Order-no. 07810  
**liquid** (500 ml)

## SE 12 Gelb

Order-no. 11320  
**Powder** (1 kg)

Order-no. 07820  
**liquid** (500 ml)

## SE 13 Orange

Order-no. 11330  
**Powder** (1 kg)

Order-no. 07830  
**liquid** (500 ml)

## SE 14 Rot

Order-no. 11340  
**Powder** (1 kg)

Order-no. 07840  
**liquid** (500 ml)

## SE 15 Blau

Order-no. 11350  
**Powder** (1 kg)

Order-no. 07850  
**liquid** (500 ml)



## SE 16 Türkis

Order-no. 11360  
**Powder** (1 kg)

Order-no. 07860  
**liquid** (500 ml)

## SE 17 Maigrün

Order-no. 11370  
**Powder** (1 kg)

Order-no. 07870  
**liquid** (500 ml)

## SE 18 Grün

Order-no. 11380  
**Powder** (1 kg)

Order-no. 07880  
**liquid** (500 ml)

## SE 19 Braun

Order-no. 11390  
**Powder** (1 kg)

Order-no. 07890  
**liquid** (500 ml)

## SE 20 Schwarz

Order-no. 11400  
**Powder** (1 kg)

Order-no. 07900  
**liquid** (500 ml)



For prices, scan the QR code and enter the order-no.

# Decorating colours 1000-1200°C | 31

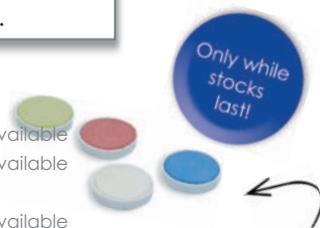


## Decorating colours for underglaze-, Majolika- and Fayence-techniques

Our range of decorating colours consists of 16 colours, including the colour "colourless transparent", with the help of which the colour-intensity of the single decorating-colours can be reduced. Using the Majolika- or Fayence-technique one paints on a mostly white, unburnt glaze. The glaze is usually glued with approx. 0,2% glaze-glue CMC 300G and thus more grip- and wipe-stable while painting. The decorating colours melt smoothly and sink into the glaze. A coating with a transparent glaze is not necessary but possible. In the case of underglaze-technique the decorating colour is applied on to the biscuit-fired shard and then coated with a transparent glaze. We recommend glaze **1001a** as **transparent glaze**. If possible the transparent glaze should be sprayed in order to avoid a slurring of the paint.

The decorating colours have to be prepared with water. They can be used after a quick stir, thus without grinding. Instead of water a 1-2% solution of the **glaze-glue CMC 300 G** can also be added to the colours which causes the colours to be less liquid and more slur-resistant for further use. A shape-sharp application via sieve-printing, brushing, spraying and stamping is simple and without problems. All decorating colours are based on the same foundation and can be mixed with each other in order to achieve a great amount of mixed colours.

Decorating colours (Powder)		Volume discounts for purchases of 1000 g, 500 g, 100 g	Saucer
Order-no.			Order-no.
08010	D 1	Rosenholz	08210
08020	D 2	Mokka	08220
08030	D 3	Weinrot	no longer available
08040	D 4	Flieder	no longer available
08050	D 5	Neutralgrau	08250
08060	D 6	Birkengrün	no longer available
08070	D 7	Chromgrün	08270
08080	D 8	Tannengrün	08280
08090	D 9	Weiß	08290
08100	D 10	Sonnengelb	no longer available
08110	D 11	Messinggelb	no longer available
08120	D 12	Türkisblau	no longer available
08130	D 13 a	Kobaltblau	08330
08140	D 14	Schwarz	no longer available
08150	D 15	Farblos transparent	no longer available
08160	D 16	Intensivrot	no longer available



Unfortunately, the saucer are only available while stocks last.



Order-no. 08200

### Assortment

approx. 20 g of each of the decorating colours D 1 - D 16



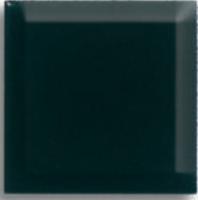
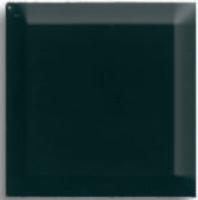
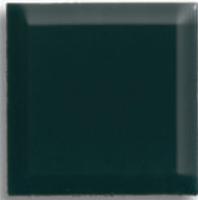
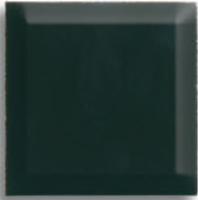
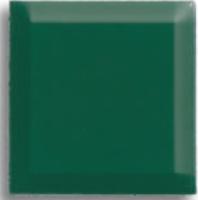
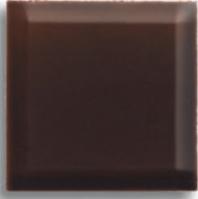
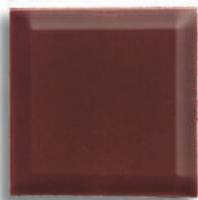
Onglaze colours (porcelain colours) do it yourself!

Order-no. 14660 **Paint medium** is a tempering means which mixes with water and is solvent-free. It is used to paint the already burnt glaze. With the help of the paint medium **onglaze colours** can be made out of the decorating colours which can then be applied in a **third firing**. Glazes can also be applied on already burnt objects.

Mixing relations: 100 weight-% colour powder plus 60-70 weight-% paint medium

500 g container  
100 g container

# 32 | Stains

					
FK 110	FK 102	FK 111	FK 112	FK 115	FK 150
					
FK 146	FK 156	FK 9959	FK 520	FK 522	FK 523
					
FK 552a	FK 546	FK 4826	FK 4198	FK 560	FK 245
		 Can only be sold to commercial users. We need your proof.			
FK 210	FK 213	FK 206	FK 330	FK 325	FK 328
			 *	 *	 *
FK 321	FK 341	FK 696a	FK 5001a	FK 5002a	FK 5003
 *	 *	 *	 *		
FK 6809	FK 9496a	FK 3022a	FK 6904	FK 641a	FK 602a
				 *	
FK 604a	FK 648	FK 401	FK 4225	FK 6011a	FK 407

\* These stains **should not be milled in a milling jar**, because cadmium or selen are enclosed in a zirkonsilicat-structure in these stains (inclusion pigment). A milling could destroy the structure and increase the cadmium-solubility.

*Stains for clay mass  
see page 10!*



For prices, scan the QR code and enter the order-no.

Stains are usually needed for the colouring of glazes and engobes. The list of colours on the other side shows the stains added to the glaze **1001a**. The amount of stain added to the glaze is named "optimal amount of addition" in the list and the glaze was burnt at 1050°C. Very good results can also be achieved with the **glaze 0497** – especially concerning red colours.

As addition to other glazes other colours can result. Tests are necessary.

The **minimum order-amount is 100g** per sort. If 10 kg per sort are ordered we charge the daily price.

Order-no.	stain		basis	max. firing-temperatur	optimal amount of addition (approx.)	
09030	<b>FK 110</b>	Tiefschwarz	Co-Fe-Cr	1300 °C	6 %	
09010	<b>FK 102</b>	Schwarz	Co-Cr-Fe-Mn-Ni	1300 °C	6 %	
09040	<b>FK 111</b>	Schwarz	Cr-Fe-Co-Mn	1300 °C	6 %	
09050	<b>FK 112</b>	Schwarz	Fe-Cr-Mn-Co-Ni-Cu	1300 °C	6 %	
09015	<b>FK 115</b>	Klavierlack-Schwarz	Ni-Fe-Cr	1300 °C	6 %	
09110	<b>FK 150</b>	Neutralgrau	Al-Co-Ni-Zn	1350 °C	5 %	
09060	<b>FK 146</b>	Blaugrau	Sn-Sb	1300 °C	6 %	
09120	<b>FK 156</b>	Grau	Zr-Co-Ni	1300 °C	6 %	
09830	<b>FK 9959</b>	Blattgrün	Cr-Co-Pr-Zr-Si-Zn	1300 °C	3-6 %	
09520	<b>FK 520</b>	Laubgrün	Cr-Co-Si	1350 °C	3-6 %	
09510	<b>FK 522</b>	Chromgrün	Cr	1350 °C	3-6 %	
09530	<b>FK 523</b>	Blaugrün	Cr-Co-Al-Zn	1350 °C	3-6 %	
09561	<b>FK 552a</b>	Tannengrün	Co-Mg-Zn-Cr	1300 °C	6 %	
09570	<b>FK 546</b>	Petrolgrün	Co-Al-Cr	1350 °C	6 %	
09580	<b>FK 4826</b>	Mintgrün	Zr-Si-Pr-V	1400 °C	3-6 %	
09540	<b>FK 4198</b>	Viktoriagrün	Zr-Si-V-Pr-Co-Ni-Cr-Fe	1300 °C	6 %	
09590	<b>FK 560</b>	Hellgrün	Zr-Si-Pr-V	1250 °C	6 %	
09240	<b>FK 245</b>	Türkisblau	Zr-V-Si	1350 °C	4-6 %	
09210	<b>FK 210</b>	Himmelblau	Co-Al-Zn	1400 °C	3-6 %	
09220	<b>FK 213</b>	Indischblau	Co-Al-Zn	1400 °C	3-6 %	
09230	<b>FK 206</b>	Kobaltblau	Co-Si	1400 °C	3 %	<b>Can only be sold to commercial users.</b> We need your proof.
09370	<b>FK 330</b>	Dunkelbraun	Fe-Cr-Mn	1250 °C	3 %	
09360	<b>FK 325</b>	Kölschbraun	Cr-Fe-Zn	1250 °C	3-6 %	
09350	<b>FK 328</b>	Kastanienbraun	Cr-Fe-Zn	1250 °C	3-6 %	
09320	<b>FK 321</b>	Rostbraun	Cr-Fe-Zn	1250 °C	3-6 %	
09330	<b>FK 341</b>	Rehbraun	Fe-Cr-Al-Zn	1250 °C	4-6 %	
09671	<b>FK 696a</b>	Zirkoneisenrot	Zr-Si-Fe	1250 °C	10 %	
09691 *	<b>FK 5001a</b>	Orange	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09721 *	<b>FK 5002a</b>	Leuchtorange	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09723 *	<b>FK 5003</b>	Gelborange	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09820 *	<b>FK 6809</b>	Orangerot	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09681 *	<b>FK 9496a</b>	Rot	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09701 *	<b>FK 3022a</b>	Dunkelrot	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09800 *	<b>FK 6904</b>	Leuchtröt	Zr-Si-Cd-S-Se	1300 °C	8-10 %	
09711	<b>FK 641a</b>	Himbeer	Ca-Sn-Si-Cr	** 1250 °C	10 %	
09621	<b>FK 602a</b>	Pink	Cr-Sn-Ca-Si	** 1250 °C	10 %	
09631	<b>FK 604a</b>	Pink	Cr-Sn-Ca-Si	** 1250 °C	10 %	
09650	<b>FK 648</b>	Violett	Sn-Cr	** 1250 °C	10 %	
09410	<b>FK 401</b>	Indiumgelb	Zr-V-In	1400 °C	3-6 %	
09430	<b>FK 4225</b>	Dottergelb	Zr-V-In-Pr-Si	1300 °C	6 %	
09441 *	<b>FK 6011a</b>	Kanariengelb	Zr-Si-Cd-S	1300 °C	8-10 %	
09420	<b>FK 407</b>	Praseodymgelb	Zr-Si-Pr	1300 °C	3-6 %	

\* These stains **should not be milled in a milling jar**, because cadmium or selen are enclosed in a zirkon-silicat-structure in these stains (inclusion pigment). A milling could destroy the structure and increase the cadmium-solubility.

\*\* Depending on the glaze these stains fade! We recommend to use our glaze 1290 at a firing temperature of 1200 °C.



**Oxide marker** are used to mark objects before fire. Heat resistant **up to 1.400 °C.**

Order-no. 14500 Braun  
Order-no. 14501 Weiß

**KERPA** is a colorable ceramic paste (**temperature resistant up to 1300°C**). It contains oil, is water soluble and miscible with all colorants. It is applied on the soft, leather-hard, dry or bisqued body. KERPA is non-caustic and is suitable for various types of application such as stamping (with various materials such as rubber, foam, linoleum or synthetic surfaces), putty work, pad printing or screen printing. The tool is cleaned with warm water.

KERPA is **label-free** (contains no lead or cadmium).

Order-no. 14114



Dose á 250 ml



For this purpose, we recommend the book „Ton, Drucktechniken & mehr...“ Order-no. 29045 (see page 92)



**CerPaint@Pen** filled with stains. Temperature resistant **up to 1.300°C**

CerPaint@ pens can be used to decorate the bisqued body. Optimal is the use as underglaze pen and a subsequent covering with a transparent glaze.

Dipping or spraying the transparent glaze is preferable, as brush application may blur the painted lines. The appearance of the colors after firing depends on the glaze used and the firing temperature. Please test the pens in advance for your purposes!

Order-no. 08550 Orange  
Order-no. 08551 Rot  
Order-no. 08552 Grün

Order-no. 08554 **spare tip** beveled

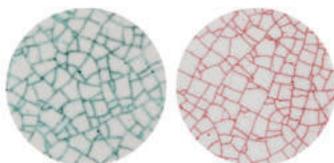


**Underglaze pencils** are used like crayons. Painting is done on the bisqued body, which is later overglazed with a transparent glaze (underglaze technique). Unglazed, the colors have no adhesion. They can be sharpened with a knife or also with a sharpener (a sharpener for thick pencils is best).

Order-no. Nr.	colour	temp. max.:
08450 601	Braun (marrone)	1250°C
08451 603	Dunkelgrün (verde)	1250°C
08452 604	Blau (blu)	1250°C
08453 606	Schwarz (nero)	1250°C
08457 612	Violett (viola lilla)	1150°C
08458 614	Orange (arancio orange)	1150°C
08459 602	Rot (rosso)	1150°C



Very yielding!



Order-no. 13850 **Schwarz**  
Order-no. 13851 **Grün**  
Order-no. 13852 **Rot**

### Fluid for craquelée glazes

To make the craquelée web visible, we have developed this fluid. It is applied to the surface of the fired glaze. After a short exposure time, the excess fluid is washed off or rubbed off with a dry cloth.

Contents 100 ml each. The delivery includes a sponge.



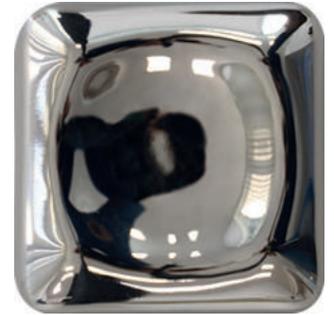
For prices, scan the QR code and enter the order-no.

Order-no. container

- 10100 5 g **Glanzgold** FPM101 12%
- 10110 10 g **Glanzgold** FPM101 12%
- 10120 50 g **Glanzgold** FPM101 12%
  
- 10150 5 g **Glanzplatin** FPM302
- 10160 10 g **Glanzplatin** FPM302
  
- 10602 10 g **Verdünner** Thinner
- 10603 50 g **Verdünner** Thinner

larger container on request

## Gold and Platinum



The pure metal preparations gold and platinum are used for the decoration of porcelain, stoneware, art ceramics and enamel. They are delivered **ready to use as liquids**. If necessary the thinner V39 can be added to the preparations. The objects which should be decorated need to be free off fat and dust. The preparations are thinly applied on to a burnt, white glaze with a squirrel-hair-brush.

While burning make sure that the vapours which develop up to approx. 430°C can freely evaporate.

### The firing temperatures are:

- porcelain 740-920°C
- stoneware / earthenware 720-890°C

Sensitive colour for great works of art on plates and cups

Cool tableware. It's super easy. **Children aged 6** and above can colour porcelain and drinking glasses according to their own ideas with the KREUL Porcelain Marker medium. In no time at all – without shaking or pumping. But with sensitive properties. The formula is dermatologically tested and vegan as well as sustainably designed: The marker's plastic consists of 60% recycled material. This is truly quality "Made in Germany". Let's go: Paint cheeky designs, leave to dry and fix in the oven. Ready!

## Porcelain marker medium

- Brilliant porcelain colouring pen
- Water-based, non-fade
- Dermatologically tested and vegan formula
- Without shaking or pumping
- With large and resistant fibre tip, line thickness app. 2-4 mm
- **How it works:** Keep the area of usage and for eating clear. As long as the colouring hasn't been baked it can be removed with water. After a drying time of 4 hours place in the cold oven and bake for 90 mins at 160°C. Leave to cool and harden in the oven. Afterwards the colour is dishwasher-suitable.
- The colour is produced fairly and safely in Germany.



Order-no. 08750  
**Assortment** (5 pens )

Content:  
Gelb  
Kirschtrot  
Dunkelblau  
Dunkelgrün  
Schwarz

### Glass & Porcelain pen metallic medium with pump tip (processing like porcelain pen)

- 08971 **Gold**
- 08972 **Silber**



Order-no.

- 08660 **Schwarz**
- 08680 **Violett**
- 08690 **Dunkelblau**
- 08700 **Gelb**
- 08710 **Kirschtrot**
- 08720 **Orange**
- 08730 **Dunkelgrün**
- 08740 **Braun**
- 08940 **Hellgrün**
- 08950 **Pink**
- 08960 **Türkis**
- 08970 **Hellblau**





**Stellmittel Stabil 119**/suspension stabilizer prevents the unrequested disposition of the glaze, thus keeps the glaze floating. Amount to be added: 0,2%

Order-no. 14110            can 12 kg \*  
                                  bottle 1 kg

**Revultex 359**/ is used to cover surfaces which should not be decorated. A layer is formed which later on has to be removed to allow the covered surface to be coated with a different colour.

Order-no. 14080            bottle 1 L \*

**Kaltwachs** is needed – like Revultex 359/ - to cover surfaces which should not be decorated. You can paint on an unburnt glaze with cold wax (Kaltwachs)

Order-no. 14240            can 0,25 L \*  
Order-no. 14490            canister 5,00 L

**Konservierungsmittel** This liquid preservative causes a stabilisation of glaze and casting slip over months. Amount to be added: 0,05 to 0,2% (in relation to the overall amount of slip)

Order-no. 14384            bottle 0,25 kg \*

**Dextrin 258**/ is an organic binder which causes a better adhesion of the glaze on the shards and which evaporates during the burning. Amount to be added: up to 2%

Order-no. 14091    from    25 kg  
                          from    10 kg  
                          from    1 kg

**Bentone EW** increases viscosity and adhesion of glazes. Additionally the disposition is prevented as well as the workability positively influenced. Amount to be added: 0,3 to 1% (according to requested consistency)

Order-no. 14300    from    25 kg  
                          from    10 kg  
                          from    1 kg  
                          less than 1 kg

**Glasurkleber CMC 300 G** acts in glazes as binder (glaze glue) like Dextrin.

Amount to be added: approx. 0,2%

Order-no. 14100    from    20 kg  
                          from    10 kg  
                          from    1 kg  
                          less than 1 kg



**Glasurgranulate** glaze granules are added to glazes in order to have an effect of speckles (i.e. Glasur 983 confetti on page 21). After adding the granulates the glaze should not be sieved. Burnable up to 1250°C. Amount to be added: 0,2 - 9%. Alternative: Illmenit (see page 8)

Order-no. 14842    Rot „fein“  
Order-no. 14513    Weiß  
Order-no. 14517    Schwarz  
Order-no. 14843    Grünv            → only while stocks last  
Order-no. 14845    Blau  
Order-no. 14849    Gelb              → only while stocks last



**Glitterpigment** is added to glazes to obtain a glitter-effect (i. e. in our Glitter-Glazes on page 12). Amount to be added: 5 - 15%. Firing range up to 1100°C. After that, the glitter effect is lost.

Order-no. 14518    from    1 kg  
                          less than 1 kg

**Mattierungsmittel** by adding 5 - 20% of this medium to a shiny glaze a matt surface is produced. The glaze run-off is reduced by the medium, too.

Order-no. 14115    from 10 kg  
                          from 1 kg  
                          less than 1 kg

**Stammlösung** for liquidglazes

With this solution all powder glazes can be made paintable (to be used with a brush). Mix approximately 200 g of the solution with 1 kg of glaze powder and approx. 0,7 liter of water.

Order-no. 14117    1,5 kg    can \*

**Pehatine 209** improves the spreadability and adhesion of the glaze.

For brush application:  
Approx. 20-30% Pehatine to 1 kg powder and approx. 50-60% water.

For spraying, pouring or dipping:  
Approx. 5% Pehatine to 1 kg powder + water, as required.



Order-no. 14112    500 ml    can \*  
                          from 20    can



For prices, scan the QR code and enter the order-no.

**Reparaturmasse** *repairing mass* (light-burning) is used to improve bisque fired shards. Massage it into the fissures or glue broken parts together. The repairing mass (Reparaturmasse) is also suitable for improvements on the bricks of the kiln. Heat resistant up to 1350°C.



Order-no. 14140 can 0,5 kg ❄️

**Thermofix-Kleber** *thermofix-glue* (light-burning) to glue bisque fired and glazed fragments. The glue has to be burnt again. Heat resistant up to max. 1250°C.

Order-no. 14480 tube 17 ml  
Order-no. 14481 tube 70 ml



**Marmorkitt AKEMI 1000** is an extremely enduring two-component-glue on a polyester basis. It can be used to cement and glue already burnt ceramic (cannot be burnt together with the ceramic).  
Can of 150 ml and hardener



Order-no. 14350

**Spachtelmasse** glues even vertical surfaces because it does not flow.  
Can of 150 ml and hardener

Order-no. 14351

**Dichtungsmittel 115/** *sealant* helps to subsequently seal leaking vases and similar objects. The objects treated with the sealing-liquid hardly change their appearance.

Order-no. 14130 canister 10 L ❄️  
bottle 1 L

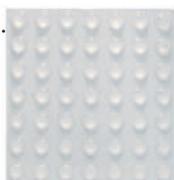
**Feinstaubmasken FFP 3** offer protection against hazardous toxic, solid and liquid particles up to 30 times of the exposure limits at workplaces (according to German law)

Order-no. 14151 from 5 pieces  
1 piece



**Elastikpuffer** are the „invisible“ alternative to felt and are glued to the underside of ceramic objects. Self-adhesive and transparent. Measurements: ø 8,0 mm, height 2,2 mm

Order-no. 14640



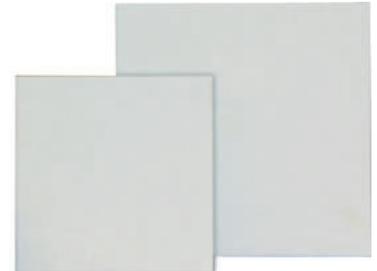
**Kacheln** *tiles* unglazed, bisque fired. To be painted and decorated.

Order-no.	dimensions approx. cm	thickness approx.	pack size
14400	14,7 x 14,7	5,5 mm	46 pieces*
14420	20 x 20	6 mm	27 pieces*

\*quantity may vary!

Burning range max.:

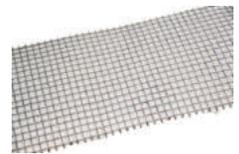
1070°C flatly burnt  
1040°C in tile crank



**Siebgewebe** made of stainless steel V2A which is also used in our sieves on page 47.

Order-no.	meshes per cm²	width of the meshes mm
15850	400	0,315
15860	900	0,200
15870	1600	0,150

Minimum order 0,25 x 1m. If you order 5m² or more of one type, we are able to supply other widths, too.



**Stanzöl (Formöl)** is used as means of separation during the stamping of ceramic products in steel and plastic forms.

Order-no. 14471 canister 20 kg ❄️  
Order-no. 14470 bottle 0,5 kg

**Effekt-Bildner** *Effect creator* is applied to an unfired, dried glaze 1-2 times with a brush. Can be used in all temperature ranges (1050 - 1260°C). This additional application enhances and even changes effects.

Try it out!

(Note: apply thinly to the lower edge of vertical surfaces. If applied thickly, the effect former tends to run strongly).

Order-no. 14102 ❄️ can 500 ml





Detailed brochures on request



### Precise kitchen scales

Delivery includes matching batteries.

- Extremely simple operation: 2 buttons
- Convenient taring with just one button press. This allows, for example, a bowl to be tared before starting the recipe. In addition, after each ingredient is weighed, the scale can be tared so that the next ingredient can be weighed with the weight specified in the recipe without having to calculate anything.
- Integrated AUTO-OFF function to conserve battery power

Order-no.	model	area of balance	readability	balance platform
15516	<b>FGE 5K-3S05</b>	5.000 g	1,00 g	152 x 230 mm
15517	<b>FGE 10K-3S05</b>	15.000 g	1,00 g	272 x 205 mm



### Basic precision balances

Delivery includes 4 AA batteries (alkaline). Optionally these balances also work with a net-adapter (not included in the delivery range).

Order-no.	model	area of balance	readability	balance platform
15504	<b>EMB 500-1</b>	500 g	0,10 g	150 Ø mm
15510	<b>EMB 2200-0</b>	2.200 g	1,00 g	150 Ø mm
15521	<b>EMB 5.2K 1</b>	5.200 g	1,00 g	150 Ø mm
15530	Power adapter			



### Precision balances for laboratories

Delivery includes a net-adapter. Optionally these balances also work with batteries or respective storage batteries (not included in the delivery range).

Order-no.	model	area of balance	readability	balance platform
15524	<b>PCB 300-2</b>	300 g	0,01 g	105 Ø mm
15527	<b>PCB 2000-1</b>	2.000 g	0,10 g	130 x 130 mm
15528	<b>PCB 6000-0</b>	6.000 g	1,00 g	150 x 170 mm
15526	<b>PCB 6000-1</b>	6.000 g	0,10 g	150 x 170 mm

→ Not in stock! These scales are delivered directly from the manufacturer.



### Industrial platform balances

Delivery includes a net-adapter. Optionally these balances also work with batteries or respective storage batteries (not included in the delivery range).

Order-no.	model	area of balance	readability	balance platform
15505	<b>DE 15K2D</b>	15.000 g	5,00 g	315 x 305 mm
15506	<b>DE 60K10DL</b>	60.000 g	20,00 g	522 x 403 mm

→ Not in stock! These scales are delivered directly from the manufacturer.





For prices, scan the QR code and enter the order-no.

Order-no.

15230 **Measuring cylinder** with a scale up to 100 ml

15220 **Measuring cylinder** with a scale up to 500 ml

15320 **Plastic vessel** with a scale up to 1 L

15210 **Plastic vessel** with a scale up to 2 L



Order-no.

14120 **Aräometer** length: approx. 24,5 cm Bulk prices 1 piece / 10 pieces

Aräometer (**glaze spindles**) are used to find out the specific weight of the mixed glaze. Our glaze spindles are equipped with two scales:

- Specific weight (scale degrees 1-2)
- Glaze density according to Baumé (scale degrees 0-70)

## Abwiege-Schaufeln *Scoops for weighing*

Order-no.	material	length incl. grip	
22430	Made of aluminum	approx. 400 mm	1510 cm <sup>3</sup>
22420	Made of aluminum	approx. 350 mm	675 cm <sup>3</sup>
22410	Made of aluminum	approx. 290 mm	440 cm <sup>3</sup>
22405	Made of aluminum	approx. 185 mm	105 cm <sup>3</sup>
22450	Made of plastic	approx. 160 mm	50 cm <sup>3</sup>



## Bayer-Email-Prüfsiebe

Order-no.	name	mesh	mesh-width
15540	Test-sieve (complete)	3.600	0,1 mm
15541	Spare sieve	3.600	0,1 mm
15550	Test-sieve (complete)	10.000	0,06 mm
15551	Spare sieve	10.000	0,06 mm

They are used to check the grinding fineness of glazes or casting slips quickly. The residue on the 3.600 or 10.000 M/cm<sup>2</sup> sieve is measured.



Order-no. 15920

**Glaserzerstäuber** Is used for spraying of glazes or for spray-effects on unburnt glazes with a different glaze or staint, length approx. 35 cm



## DIN-flow-cup (Viskosimeter)

In order to adjust mass- or glaze-slickers according to their time of running out.

Order-no.

15470 4 mm Ø

15471 6 mm Ø



Order-no.	ROUND	width approx
14160	R 4	100 mm
14170	R 5	125 mm
14180	R 6	150 mm

(If 10 pieces of one sort are purchased: 20% off)



Order-no.	ANGULAR	width approx
14190	E 4	100 mm
14200	E 5	125 mm
14210	E 6	150 mm

(If 10 pieces of one sort are purchased: 20% off)

**Tea-pot-handles** made of rattan



## Clay centerer

Centering the easy way! With the help of this patented centerer everybody can center clay on an electric wheel within 10-15 seconds. Try it out – you'll like it!

Exclusive delivery only by us!

Order-no. description  
 20392 of wood and stainless steel, 76 cm long  
 Stainless steel blade adjustable in height



**Potlift**, painted metal, Ø 30,5 cm  
 is used to lift sensitive parts from the top of the wheel.

Order-no. 15110



**Wheelhead grip** The wheel-head grip (turning help) fits all wheel-heads up to 320 mm in diameter. This device is delivered with four different sets of gripping devices so that different forms can easily be centered for turning or decorating.

Order-no. 15830



**Clayroller** With its help the clay can be rolled evenly. The roller-coat is made of shock-resistant plastic. General length: approx. 70 cm / length of the roller: approx. 42 cm. Diameter of the roller: approx. 9 cm

Order-no. description  
 15900 without ball-bearing (orange)  
 15910 with ball-bearing (blue)

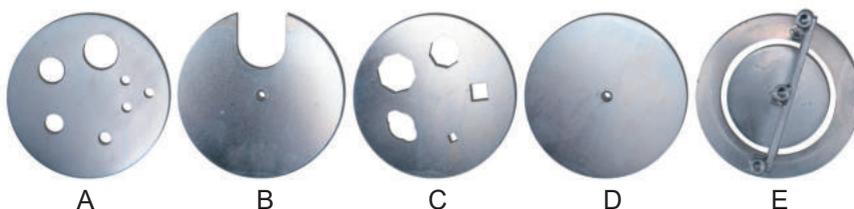
If 10 pieces of one sort are purchased: 10% off.

## Manual clay press

Stable, coated version to be fixed on the wall. Handles and tubes can be drawn. 5 different templates are included in the delivery. The manufacturing of your own templates is possible.

Cylinder diameter approx. 10 cm, Cylinder height approx. 30 cm, General height approx. 70 cm

Order-no. 15820



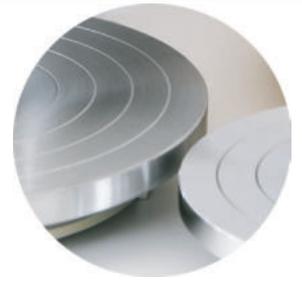
The **templates** are separately available:

Order-no. 15821 "A" Order-no. 15824 "D"  
 Order-no. 15822 "B" Order-no. 15825 "E"  
 Order-no. 15823 "C"

Order-no. 15826 **Set (A-E)**



For prices, scan the QR code and enter the order-no.

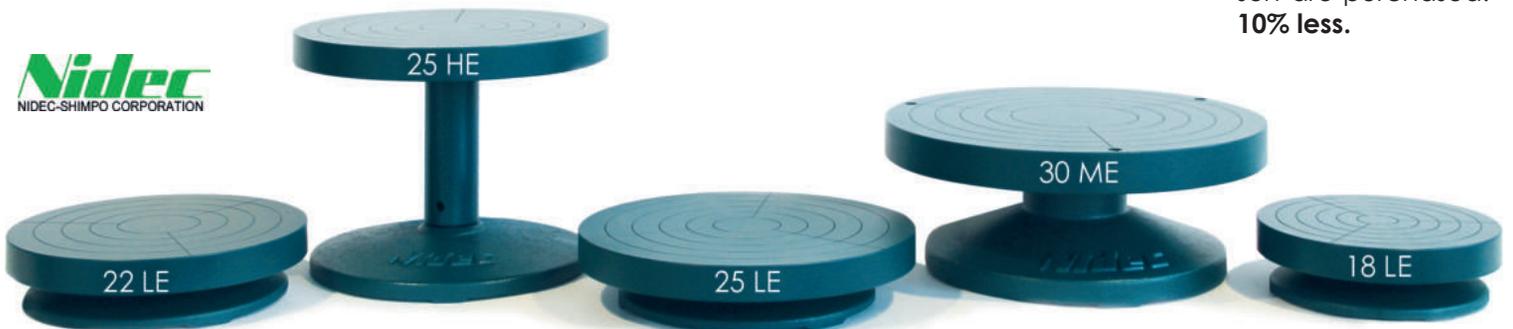


All banding wheels are marked **with circular lines on the surface** in order to allow a faster centering of the objects. Differences in colour with regard to the enamel finish are possible.

**Mass discount:**  
If **10 wheels** of one sort are purchased: **10% less.**

## Banding wheels

Order-no.	type	material	Ø approx. mm	height approx. mm	bearing	weight approx.
15711	<b>303</b>	Cast steel	220	45	Ball-bearing	3,5 kg
15712	<b>304</b>	Cast steel	220	80	Steel sphere	3,3 kg
15721	<b>305a</b>	Cast steel	220	120	Steel sphere	3,4 kg
15662	<b>307b</b>	Cast steel	300	100	Ball-bearing	9,2 kg
15631	<b>309a</b>	Cast steel	220	145	Ball-bearing	4,3 kg
15680	<b>312</b>	Aluminium	220	55	Ball-bearing	1,3 kg
15740	<b>314</b>	Aluminium	220	165	Ball-bearing	1,7 kg



15730	<b>18 LE</b>	Cast steel	178	57	Ball-bearing	4 kg
15731	<b>22 LE</b>	Cast steel	222	57	Ball-bearing	5,2 kg
15732	<b>25 LE</b>	Cast steel	250	57	Ball-bearing	6,25 kg
15733	<b>25 HE</b>	Cast steel	250	190	Ball-bearing	6,8 kg
15734	<b>30 ME</b>	Cast steel	298	120	Ball-bearing	11,55 kg

15742	<b>TA 30</b>	Aluminium	300/200	43	Ball-bearing	1,6 kg
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(2 in 1 turning model)



❶ Order-no. 15750 **Modellierbock** Freight forwarding   
*Stand for modelling*

The stand for modelling consists of a stable, three-foot tube-frame. The round **massive wood plate** has a diameter of 350 mm, has a spindle and can be adjusted in the height of 900 to 1200 mm.

❷ Order-no. 15700 **Fußränderscheibe 308a**   
*floor-standing decoration-wheel*

The floor-standing decoration-wheel containing a steel-sphere (cast-steel) has a diameter of 220 mm and can be adjusted in the height from 750-1180 mm. Weight approx. 8,7 kg.

❸ Order-no. 15760 **Höhenmaß (Stechmaß)**   
*Wheel-gauge*

Helps to keep the same height and breadth when throwing a series of objects. The tool is delivered with two runners. Height approx. 600 mm.





**Modellierhölzer** modelling tool  
polished wood, approx. 19-24 cm long

Order-no. Nr.



**Modellierhölzersatz**  
set of modelling tools  
16 tools, approx. 18 cm long

Order-no. no.  
16570 96



**Mini-Modellierhölzer-Satz**  
set of modelling tools

6 tools approx. 12 cm long

Order-no. no.  
16600 94

You can order following single tools separately out of the set:

Order-no. length approx.

16450 15 cm



16460 13 cm



**Modellierhölzersatz**  
set of modelling tools  
7 tools, approx. 20 cm long

Order-no. no.  
16510 93



For prices, scan the QR code and enter the order-no.



**Keramikwerkzeugsatz**

set of ceramic tools  
9 tools  
approx. 14 - 22 cm long

Order-no.	no.
16550	100



**Keramikwerkzeugsatz**

set of ceramic tools  
7 tools  
approx. 11 - 16 cm long

Order-no.	no.
16530	98



**Modellierschlingen**

looped tool  
made of stainless steel,  
approx. 13-15 cm long

Order-no.	no.
16300	30
16310	31
16320	32



**Bildhauerschlingen**

sculpturing tool  
made of stainless steel,  
approx. 26-32 cm long

Order-no.	no.
16400	40
16410	41
16420	42
16430	43

**Modellierschlingen** looped tool

made of stainless steel, approx. 19 - 21 cm long

Order-no. no.

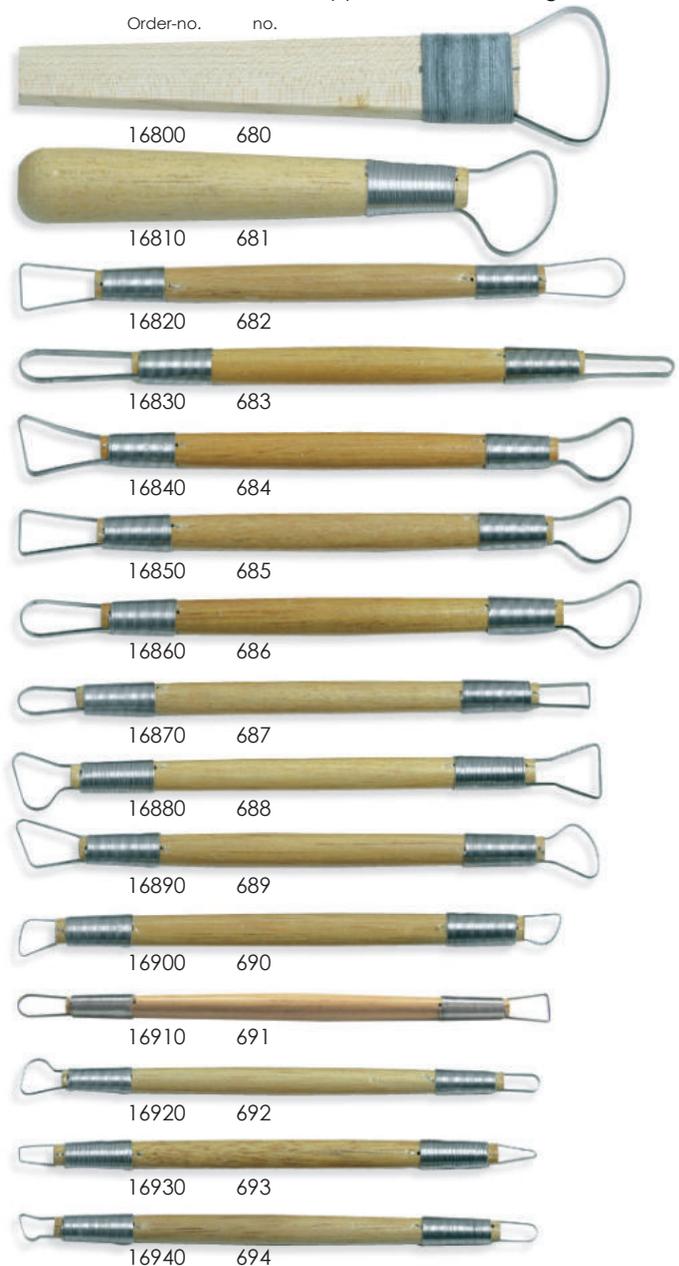


16330	33
16340	34
16350	35
16360	36
16370	37
16380	38

**Modellierschlingen mit Drahtbund**

coiled ribbon tool approx. 15 - 20 cm long

Order-no. no.



16800	680
16810	681
16820	682
16830	683
16840	684
16850	685
16860	686
16870	687
16880	688
16890	689
16900	690
16910	691
16920	692
16930	693
16940	694



**Töpferwerkzeug-Satz**  
pottery tool kit  
8 tools

Order-no. no.  
16500 92

**Lochsneider** holecutter

Order-no.	no.	Ø
17500	211	5 mm
17510	212	7 mm
17520	213	13 mm
17530	214	21 mm

**Universal-Lochsneider**

holecutter  
Order-no.  
16750



**Rollensneider** looped tool

Order-no.	no.	Ø
17540	215	13 mm
17550	216	16 mm
17560	217	21 mm

**Knibishölzer** decorating tools

Order-no.	no.	form	length (approx.)
17720	247	straight	12 cm
17730	248	wavy	13 cm



**Henkelzieher**

handmaker  
approx. 12 cm long, stainless steel

Order-no. no.  
17600 221

**Redholz**

17740 249 18 cm

**Keramikwerkzeuge** cutout-tools

approx. 13 - 17 cm long

Order-no.



**Set kleine Modellierschlingen**

set small looped tools  
6 tools with metal grip  
approx. 14 cm long

Order-no. no.  
16560 95



**Töpfernadeln** (cutting needle)

Order-no. no. length (approx.)



cheaper as a set

**Set of above shown tools**

Order-no. no.  
16540 99



For prices, scan the QR code and enter the order-no.



Order-no. 17290 **Engobemalspritze 79 B**

sliptrailer with plastic pipette

Order-no. 17260 **Engobemalspritze 79 A**

sliptrailer with plastic pipette

**79 B**  
approx.  
3,0 mm Ø

**79 A**  
approx.  
1,5 mm Ø



**78**  
approx. 1 mm Ø

Order-no. 17250 **Engobemalspritze 78**  
sliptrailer complete with glas pipette

17270 **Glas-Pipetten**  
glas pipette single

17251 **Malbällchen**  
sliptrailer single

**Set Engobemalspritze**

sliptrailer set with 4 plastic pipettes (approx. 1,0 / 1,5 / 2,0 / 3,0 mm Ø)

Order-no. 17490



**Set Engobemalspritze**

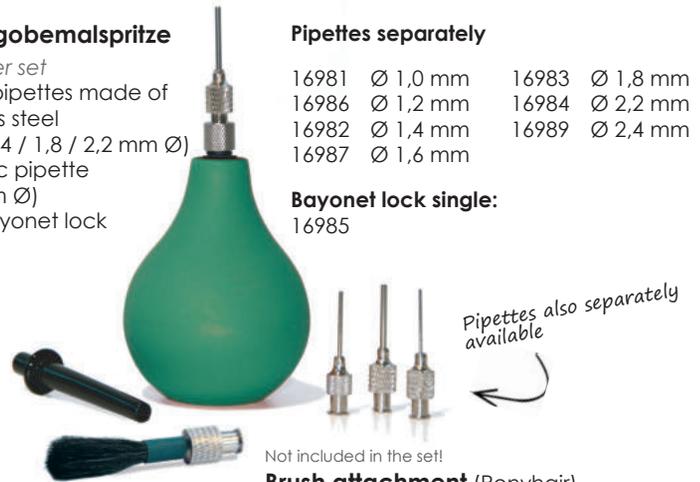
sliptrailer set with 4 pipettes made of stainless steel (1,0 / 1,4 / 1,8 / 2,2 mm Ø) 1 plastic pipette (3,5 mm Ø) und bayonet lock

Order-no. 16980

**Pipettes separately**

- |                |                |
|----------------|----------------|
| 16981 Ø 1,0 mm | 16983 Ø 1,8 mm |
| 16986 Ø 1,2 mm | 16984 Ø 2,2 mm |
| 16982 Ø 1,4 mm | 16989 Ø 2,4 mm |
| 16987 Ø 1,6 mm |                |

**Bayonet lock single:**  
16985



Pipettes also separately available

Not included in the set!

**Brush attachment (Ponyhair)**  
Hair length approx. 2,5 cm  
Order-no. 16991



**Engraving knife**

- | Order-no. | form    |
|-----------|---------|
| 16391     | round   |
| 16392     | pointed |
| 16393     | angular |



**Töpfermesser pottery knives**

Order-no. no. length



**Palettmesser** palette knives  
stainless steel

Order-no. length of blade

- |       |    |               |
|-------|----|---------------|
| 17160 | 67 | approx. 6 cm  |
| 17170 | 68 | approx. 13 cm |



17050 48 18 cm

17060 49 19 cm

16950 50 17 cm

16960 51 22 cm



**Art-Roller** made of wood and steel  
(Total length approx. 17 cm)  
Including handle!

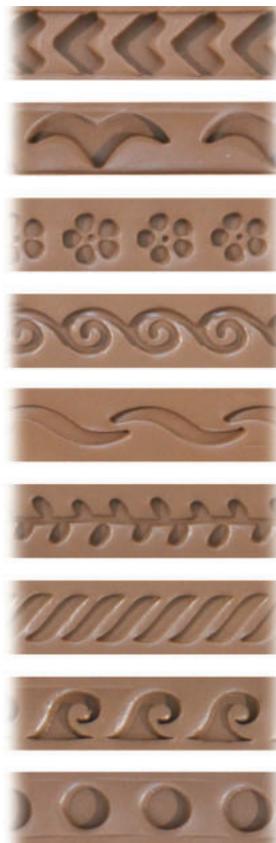


Only while stocks last!



- |           |           |
|-----------|-----------|
| Order-no. |           |
| 17431     | Design 01 |
| 17432     | Design 02 |
| 17433     | Design 03 |
| 17434     | Design 04 |
| 17435     | Design 05 |
| 17436     | Design 06 |
| 17437     | Design 07 |
| 17438     | Design 08 |
| 17439     | Design 09 |

**Art-Roller** made of wood and rubber  
(Total length approx. 19 cm)  
Including handle!



- |           |            |
|-----------|------------|
| Order-no. |            |
| 17391     | „Herz“     |
| 17392     | „Vogel“    |
| 17393     | „Blume“    |
| 17394     | „Deko“     |
| 17395     | „Schlange“ |
| 17396     | „Farn“     |
| 17397     | „Profil“   |
| 17398     | „Welle“    |
| 17399     | „Punkte“   |



- |           |   |         |
|-----------|---|---------|
| Order-no. |   | approx. |
| length    |   |         |
| 17280     | <b>Texturstift</b> (Texture brush)      | 14 cm   |
| 17190     | <b>Gummistift</b> (Rubber pen)          | 17 cm   |
| 17480     | <b>Schneiderad</b> (Clay cutter)        | 16 cm   |
| 17080     | <b>Verputzerwerkzeug</b> (Line cleaner) | 13 cm   |



**Verzierstäbe** pattern rope maker  
wood

Only while stocks last!

Order-no. 17584 - V14  
dimension:  
approx. 20 x 180 mm

Order-no. 17586 - V16  
dimension:  
approx. 20 x 150 mm

Order-no. 17588 - V18  
dimension:  
approx. 20 x 150 mm

Order-no. 17589 - V19  
dimension:  
approx. 20 x 90 mm



For prices, scan the QR code and enter the order-no.



Order-no. 17998  
Stamp-set **animals** (wood and rubber)  
(Stamps approx. 5,5 cm high / 2 cm Ø)



Order-no. 17996  
Stamp-set **forms** (wood and rubber)  
(Stamps approx. 5,5 cm high / 2 cm Ø)



Order-no. 17997  
Stamp-set **cross** (wood and rubber)  
(Stamps approx. 5,5 cm high / 2 cm Ø)



approx. 10 mm



approx. 10 mm



approx. 10 mm



approx. 15 mm

**Stamp** from bioplastic  
(corn starch - compostable!)  
Measures approx. 30 mm high.

Order-no.

- 17991 Stamp set **large letters**  
27 pieces, 1 wooden handle (A-Z, 1 x special character)
- 17992 Stamp set **small letters**  
27 pieces, 1 wooden handle (a-z, 1 x special character)
- 17993 Stamp set **numbers**  
18 pieces, 1 wooden handle (Numbers 0-8, 9 x special character)
- 17994 Stamp set **spirals and squares**  
11 pieces, 1 wooden handle
- 17995 Stamp „suitable for eating and drinking“



ca. 15 mm



**Satz Drehschienen „eckig“**  
*throwing rib set "angular"*  
 boxwood  
 7 - 11 cm long  
 Order-no. no.  
 17860 263



**Satz Drehschienen „rund“**  
*throwing rib set "round"*  
 boxwood  
 8 - 12 cm long  
 Order-no. no.  
 17870 264



**Dekorationskämme** *decoration comb* steel, approx. 21 cm long



Order-no. 17570 no. 757 8 comb tines



Order-no. 17580 no. 758 6 comb tines



**Gummischaber**  
*rubber scraper*

Order-no. no. length  
 17820 167 8 cm  
 17830 168 11 cm



SD 03



SD 04



SD 06



SD 08

**Spezial-Drehschienen**

*contour ribs*  
 hardwood,  
 approx. 9,5 x 4 cm

Order-no.  
 17153 SD 03  
 17154 SD 04  
 17156 SD 06  
 17158 SD 08



61



62



63



64



65



66

**Drehschienen**

*throwing ribs*  
 hardwood,  
 approx. 10 x 5 cm

Order-no. no..  
 17100 61  
 17110 62  
 17120 63  
 17130 64  
 17140 65  
 17150 66



For prices, scan the QR code and enter the order-no.



267

**Ziehklings**  
steel scraper  
stainless steel **0,8 mm**  
approx. 12-15 cm long

Order-no. no.  
17670 267  
17690 269  
17680 268



269



268



**Werkzeugsatz**  
set modelling tools  
stainless steel, 7 tools  
Total length approx. 15 cm  
Order-no. 17900



71

**Ziehklings**  
steel scraper  
stainless steel **0,2 mm**

Order-no.	no.	dimension (approx. cm)
17200	71	15x5
17210	72	10x5
17220	73	12x5
17230	74	10x5
17240	75	10x5



72



73



74



75



202

204

206

207

**Abdreheisen**  
stem turning tool  
Total length approx. 18 cm

Order-no.	no.
17400	202
17410	204
17420	206
17430	207



**Schneidedraht mit Holzgriffen**

clay cutter with wooden grip  
Order-no. no.  
17180 69

**Schneidedraht ohne Griffe**

steel wire without grip

Order-no.	no.	length
17640	69/5	5 m
17650	69/20	20 m
17660	69/50	50 m



**Cutting wire spiral**  
Order-no. 17184

**Schlaghölzer** large modelling tool

Order-no. no. length



16210 225 30 cm



16260 226 37 cm

**Flaschenknecht** throwing stick

Order-no. no. length



17890 255 29 cm



17880 256 36 cm

**Drehstab** throwing stick

Order-no. no. length  
17040 47 32 cm





**Töpferzirkel** calipers  
stainless steel  
Order-no. no. slide length  
17710 **246** 30 cm  
17700 **245** 20 cm



**Doppelzirkel** lip meter  
Total length approx. 31 cm  
Order-no. no.  
17010 **44**

**Töpferzirkel** calipers  
hardwood  
Order-no. no. slide length  
17030 **46** 30 cm  
17020 **45** 17 cm



**Bossiereisen** plaster modelling tools  
stainless steel, approx. 18 - 20 cm long

Order-no. no.



16778 S 16



16779 S 17



16780 S 18



16781 S 19



16782 S 20

**Set of above shown tools**

Order-no.  
16785

*cheaper as a set*



260



80/Z



80/K



81/B

**Innenglasurzange**  
glazing claw

Order-no. no. length approx.  
17450 **260** 35 cm

**Glasurzangen** glazing claw

17470 **80/Z** 28 cm  
17300 **80/K** 33 cm  
17310 **81/B** 28 cm

*Rakutongs see page 72*



For prices, scan the QR code and enter the order-no.



**Tonpresse** *clay gun*  
Cylinder approx. 24 cm  
incl. 6 patterns  
Order-no.  
17631



**Handtonpresse** *clay gun*  
approx. 10 cm long made of  
cast zinc alloy incl. 19 patterns  
Order-no.  
17630



**Handtonpresse** *clay gun HP9*  
approx. 12 cm long made of transparent  
plastic incl. 10 patterns  
Order-no.  
17637

**Reibschale mit Pistill**

*mortar and pestle*  
Order-no. no. Ø cm  
17440 86 9  
17370 87 15



**Gehungsschneider** *Mitre cutter*  
made of wood and wire  
dimensions approx. 14 x 4 x 1,5 cm (WxHxD)  
for approx. 30°, 45° and 60° lips  
Order-no.  
17245



**Satz  
kleine Tonstecher**  
*pattern cutter set*  
6 pcs., approx. 1 cm Ø,  
4 cm high  
Order-no.  
17070

**Siebe mit Kunststoffrahmen**

*sieve with plastic frame*  
stainless steel screen cloth  
**900 Ma/cm<sup>2</sup> - 72 mesh**  
Order-no. no. Ø cm  
17340 83 15  
17350 84 20  
17360 85 25

**400 Ma/cm<sup>2</sup> - 52 mesh**  
(i. e. for casting slips)  
Order-no. no. Ø cm  
16970 88 20



**Tonschneidebügel**  
**inkl. 1 Draht**  
*solid stainless harp incl. 1 wire*  
30 cm  
Order-no. no.  
17610 223

**Ersatzdraht, einzeln**  
*spare wire*  
17620



**Labor-Sieb**  
*laboratory sieve*  
**576 Ma/cm<sup>2</sup> - 60 mesh**  
Ø on top 11 cm, on bottom 9 cm  
Order-no.  
17361

**Schüsselsieb**  
*bowl sieve*  
**900 Ma/cm<sup>2</sup> - 72 mesh**  
Ø on top 24 cm, on bottom 18 cm  
Order-no.  
17460

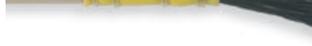


	Order-no.	no.	visible hair (mm) Ø length
<b>Drawing brush</b> ox hair	18010	102	2 11
	18020	104	3 15
	18030	107	4 20
	18040	110	5 23

	Order-no.	no.	visible hair (mm) Ø length
<b>Drawing brush</b> squirrel hair	18050	202	2 12
	18060	204	3 15
	18070	207	4 18
	18080	210	5 22

	Order-no.	no.	visible hair (mm) Ø length
<b>Painting brush</b> squirrel hair (natural quill with glued wooden handle)	18090	306	5 20
	18100	310	6 25
	18110	313	7 28

	Order-no.	no.	visible hair (mm) Ø length
<b>Writing brush</b> fine ox-ear hair	18120	406	8 17
	18130	412	11 20
	18140	414	15 26

	Order-no.	no.	visible hair (mm) Ø length
<b>Decorating brush</b> goat hair	18150	502	8 25
	18160	504	10 30
	18170	506	12 33

	Order-no.	no.	visible hair (mm) Ø length
<b>Rigger brush</b> ox hair in natural quill (delivery without wooden handle)	18180	604	4 34
	18190	602	5 36
	18200	620	6 40
	18210	670	7 45
	18220	690	9 50
<b>Holzstiele</b> können zusätzlich geliefert werden:	18230	Holzstiele	

	Order-no.	no.	visible hair (mm) Ø length
<b>Chinese Painting brush</b> ox hair with handle of bamboo	18240	701	3 18
	18250	702	4 23
	18260	703	6 29
	18270	704	5 28
	18280	705	11 48

	Order-no.	no.	visible hair (mm) Ø length
soft Chinese bristle, handle of bamboo	18290	706	6 25
	18300	707	6 34
	18310	708	10 45
	18320	709	55 33

	Order-no.	no.	visible hair (mm) Ø length
<b>Set of painting brushes</b> 2 squirrel hair, 2 ox hair in quill with wooden handle	18340	076	Satz
			2 22
			2 26
			4 38
			5 44

	Order-no.	no.	visible hair (mm) Ø length
<b>Special brush</b>	18350		21 50
			



For prices, scan the QR code and enter the order-no.

**Decorating brush** ox-ear hair

	Order-no.	no.	visible hair (mm) Ø length
	18410	<b>804</b>	7 35
	18420	<b>810</b>	14 48

**Drawing brush** mixture of fine hair

	18450	<b>812</b>	1 8
	18460	<b>814</b>	2 15
	18470	<b>817</b>	3 18

**Brushes with ox hair**

	18510	<b>832</b>	1 10
	18520	<b>834</b>	2 14
	18530	<b>837</b>	4 18
	18540	<b>840</b>	6 24

**Rigger brush** ox hair (extra long handle)

	18570	<b>852</b>	1 20
	18580	<b>854</b>	2 22

**Brush of bristles** pure white

	18610	<b>861</b>	23 35
	18620	<b>862</b>	48 45

**Fan brush**

white goat hair with acrylic handle

	18651	<b>901</b>	60 35
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**Bristle brush** flat, golden plastic bristles with acrylic handle

	18661	<b>911</b>	13 15
---	-------	------------	-------

**Set of Chinese brushes** soft chinese bristle  
(1 ox hair) 4 broad and 3 sharp brushes,  
wooden or bamboo handle

	Order-no.	no.	visible hair (mm) Ø length
	18330	<b>077 Satz</b>	1 7 5 28 8 23 10 22 17 35 38 38 68 35

**Flat brush** with short broad handle, soft china bristles

	18323	<b>BH0303</b>	30 25
	18324	<b>BH0304</b>	50 30

**Bristle brush** Natural pig bristles with wooden handle

	18670	<b>920</b>	11 30
	18671	<b>921</b>	18 35

**Flat brush** with short, wide bamboo handle, soft Chinese bristles

	18680	<b>schmal</b>	35 40
	18681	<b>breit</b>	50 45





## Sponge rubber for glaze-removal-machine

Order-no.	quality (name)	colour	perimeter	breadth	thickness
24010	<b>hard</b> (S 53), no.251/1	orange	967	350	10 mm
24050	<b>hard</b> (S 53), no.251/1 with bonded V-belt	orange	967	350	10 mm
24020	<b>middle-hard</b> (or-mi), no.251/2	orange	967	350	10 mm
24016	<b>hard</b> (bicar 53)	blue	967	350	10 mm
24015	<b>middle-hard</b> (bicar BW)	green	967	350	10 mm
24025	<b>Velour</b> glaze removal tape	black	967	350	2,5 mm

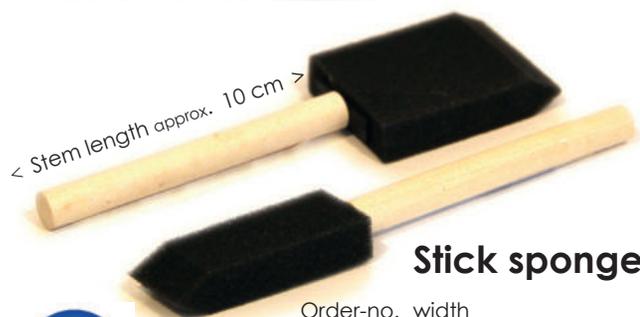
More informations on our [homepage](#).  
Different measurements and qualities on request.

## Artificial sponges

Order-no.		l x e x h (mm)	pores
14710	KS 101	120 x 90 x 30	fine
14720	KS 102	120 x 90 x 40	fine
14730	KS 103	130 x 90 x 45	fine
14740	KS 104	130 x 90 x 45	rough

17090 **Silk sponge**  
especially finely pored 70 mm Ø  
(colour of sponge may vary)

14750 **Artificial sponges KS 100 round**  
70 mm Ø, 30 mm thick



< Stem length approx. 10 cm >

## Stick sponges

Order-no.	width
17093	<b>50 mm</b>
17092	<b>25 mm</b>



## Natural sponges

Order-no.	name
17810	<b>Levantiner</b> (round natural sponge)
17800	<b>Elefantenohr</b> (flat natural sponge)



## Grindstones made of corundum for rubbing and smoothing of ceramic burnt surfaces.



Order-no.	Dimensions
14590	100 x 50 x 25 mm
14460	200 x 50 x 25 mm



For prices, scan the QR code and enter the order-no.

These containers have been very useful for the storing of glazes and clay bodies. They consist of shock- and heat-resistant plastic, thus they are durable and stable.

All containers can be piled up on one another in connection with the lid.

The transport of the container no. 210 can be done with a jack lift or a fork-lift or with an undercarriage deliverable for a surplus.



order-no.	container-no.	volume (approx.)	dimensions (approx.) in cm		
			top	bottom	high

## Container with lid

22010 **210** **195 L** 78x60 60x45 68 incl. feet



22110 **Undercarriage** for container no. 210 (max. load capacity 250 kg)



22050 **2** **75 L** 45 Ø 39 Ø 54

22070 **3** **40 L** 37 Ø 33 Ø 45

22040 **Clay box** **100 L** 60x40 60x40 42

22041 **Undercarriage** for clay box (max. load capacity 300 kg)

In quantities of 10 containers (one type): **10% discount.**

## Bucket with a pouring-out device and scale

22310 **10 L** 28 Ø 19,5 Ø 30

22320 **15 L** 31 Ø 25,5 Ø 34



## Bucket with handle and lid

22160 **3,5 L** 19 Ø 16,5 Ø 18

22170 **6 L** 21 Ø 18,5 Ø 23

22140 **10 L** 25 Ø 22,5 Ø 26,5

22150 **30 L** 35,5 Ø 31,5 Ø 39

In quantities of 10 buckets with handle and lid (one type): **10% discount.**

## Cans with

22200 clamp-top **0,3 L** 8,5 Ø 8 Ø 6

22210 clamp-top **1,0 L** 11 Ø 9,5 Ø 14,5

22220 clamp-top **1,6 L** 14 Ø 12 Ø 14

22230 screw cap **0,5 L** 9,5 Ø 9,5 Ø 10

In quantities of 50 cans (one type): **10% discount.**



\* Freight forwarding



**See**



**Kreis**



**Oval**



**Ei**

These molds are made of 18mm thick, moisture-resistant **MDF**. The edges of the molds are sloped at 45° angle. Thus, all molds are **stackable** and can easily be stacked for the production of various sizes.



Store the shape well dried and in a dry place after use.

## See

Order-no. sizes

- 57610 130 x 116 mm
- 57612 167 x 153 mm
- 57614 204 x 190 mm
- 57616 241 x 227 mm
- 57618 278 x 264 mm



57619 **Set** (5 forms)

## Oval

Order-no. sizes

- 57620 263 x 93 mm
- 57622 300 x 130 mm
- 57624 337 x 167 mm



57629 **Set** (3 forms)

## Kreis

Order-no. sizes

- 57630 Ø 130 mm
- 57632 Ø 167 mm
- 57634 Ø 204 mm
- 57636 Ø 241 mm
- 57638 Ø 278 mm



57639 **Set** (5 forms)

## Ei

Order-no. sizes

- 57640 100 x 130 mm
- 57642 137 x 167 mm
- 57644 174 x 204 mm
- 57646 211 x 241 mm
- 57648 248 x 278 mm



57649 **Set** (5 forms)



*By stacking the forms flatter or higher objects can be moulded.*





For prices, scan the QR code and enter the order-no.

**Schellack** is used for (among others) the sealing of the mother-model made of plaster. For the application so-called "kluppen-brushes" (see page 49) are used.

Order-no. 14040

from 100 g  
from 1 kg



Releasing agent as **emulsion W 165**, ready to use releasing agent, used when manufacturing plaster

14370

from 25 kg  
from 1 kg



Schellack

## Plaster for moulds (Supraduro)

Order-no. 14050

500 kg  
25 kg

**Plaster mould brackets** can be delivered in two different sizes

Order-no.

14070 **small** (no.3)

dimensions cm (approx.) height 2, Ø 1,5 from 1000 pairs  
less than 1000 pairs

14060 **big** (no. 2a)

dimensions cm (approx.) height 2, Ø 2,3 from 1000 pairs  
less than 1000 pairs



Plaster for  
moulds



## Band clamps for plaster moulds

Order-no.

14280 pink, approx. 240 cm long

14290 blue, approx. 150 cm long



## Rubber bands for plaster moulds

14600 5" (form scope 25-45 cm)

14610 7" (form scope 38-65 cm)

14620 9" (form scope 50-90 cm)



Quantities of 20 bandages per variety: 20% discount.

**Plaster plates** Quantities of 10 plates per variety: 10 % discount.

Order-no. **ROUND** | thickness approx.

23900 Ø 20 | 2,6 cm

23910 Ø 25 | 2,6 cm

23920 Ø 30 | 3,0 cm

23930 Ø 35 | 3,0 cm

Order-no. **ANGULAR** | thickness approx.

23941 30 x 30 | 3,0 cm

23940 50 x 35 | 3,0 cm

23950\* 50 x 50 | 3,0 cm

\*Delivery is only possible by a carrier



**Filler funnel** for solid casting moulds  
approx. 11 cm Ø - 7,5 cm high  
31430



**Lock for money-box** metall, incl. key  
approx. 35 mm Ø  
14630

Production-technically it can occur that molds are moist.



1| Mould of half-bowl for **inside re-shaping**



2| mould of 4 half-bowls for inside re-shaping



Ø 40er mould delivery ist only possible by a carrier!

3| Mould of half-bowl for **inside and outside re-shaping**

All moulds shown on this page can be casted or shaped with plastic clay mass!

4| mould of 4 „Kumme“ for inside re-shaping



5|



6|



7|



8|



9|



10|



Order-no.

dimensions cm (approx.)

1	23510	<b>Halbkugel</b>	(for inside re-shaping)	10 Ø
	23512	<b>Halbkugel</b>	(for inside re-shaping)	12 Ø
	23520	<b>Halbkugel</b>	(for inside re-shaping)	15 Ø
	51990	<b>Halbkugel</b>	(for inside re-shaping)	18 Ø
	23530	<b>Halbkugel</b>	(for inside re-shaping)	20 Ø
	23540	<b>Halbkugel</b>	(for inside re-shaping)	25 Ø
	23550	<b>Halbkugel</b>	(for inside re-shaping)	30 Ø
	23560	<b>Halbkugel</b>	(for inside re-shaping)	35 Ø
	23570	<b>Halbkugel</b>	(for inside re-shaping)	40 Ø
2	23594	<b>Halbkugel 4er Form</b>		4, 5, 6, 8 Ø
			inside / outside	
3	23591	<b>Halbkugel</b>	(for inside and outside re-shaping)	15 / 17,5 Ø
	23592	<b>Halbkugel</b>	(for inside and outside re-shaping)	20 / 25 Ø
	23593	<b>Halbkugel</b>	(for inside and outside re-shaping)	30 / 35 Ø
4	23416	<b>Kumme form of 4</b>		4, 5, 6, 8 Ø

5	23411	<b>Kumme</b>	(for inside re-shaping)	15,5 Ø / 12,5 h
	23412	<b>Kumme</b>	(for inside re-shaping)	19 Ø / 16 h
	23413	<b>Kumme</b>	(for inside re-shaping)	22,5 Ø / 18 h
6	54410	<b>Kegelstumpf</b>	(for inside re-shaping)	15 Ø
	54420	<b>Kegelstumpf</b>	(for inside re-shaping)	20 Ø
	54430	<b>Kegelstumpf</b>	(for inside re-shaping)	25 Ø
7	31080	<b>Diskus</b>	(for inside re-shaping)	18 Ø
	31090	<b>Diskus</b>	(for inside re-shaping)	25 Ø
8	57200	<b>Schalenform/Linse</b>	(for inside re-shaping)	10 Ø
	57210	<b>Schalenform/Linse</b>	(for inside re-shaping)	15 Ø
	57220	<b>Schalenform/Linse</b>	(for inside re-shaping)	20 Ø
	57230	<b>Schalenform/Linse</b>	(for inside re-shaping)	25 Ø
	57240	<b>Schalenform/Linse</b>	(for inside re-shaping)	30 Ø
9	31630	<b>Sonne</b>	(for inside re-shaping)	18 Ø
10	23421	<b>Schale oval</b>	(for inside re-shaping)	20 l x 10 w
	23423	<b>Schale oval</b>	(for inside re-shaping)	30 l x 15,5 w

You can find **more moulds** (not on stock!) on our homepage [www.carl-jaeger.de](http://www.carl-jaeger.de)!



For prices, scan the QR code and enter the order-no.



1|



2|



3|



4|

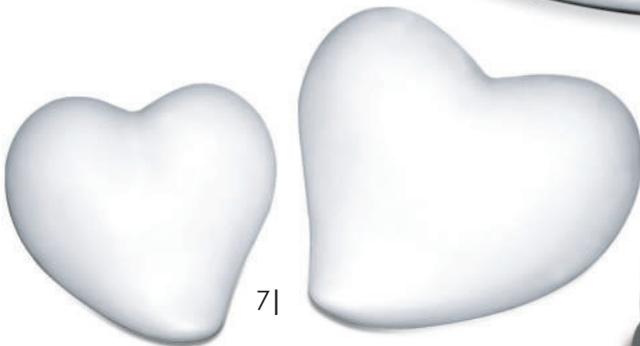


5|



6|

Production-technically it can occur that molds are moist.



7|



8|



9|

10|

These cup moulds are suitable for pouring or moulding!

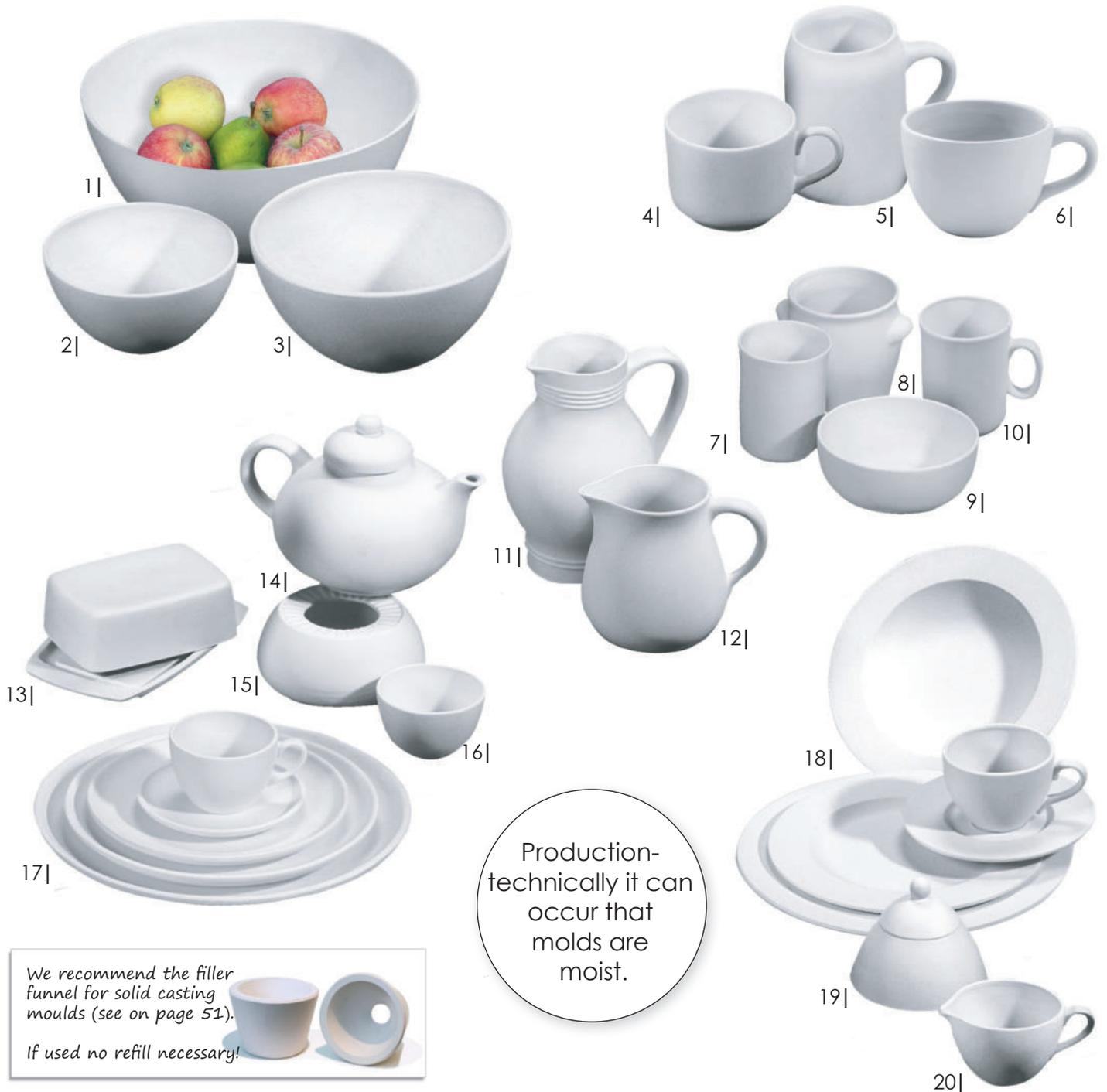
The modelling loop „32“ on page 43 is particularly suitable for removing the „protection“ from both cups.



Order-No.		Ø above / height cm (approx.)
9	23076 <b>Becher</b> HH 15/4	9,8 / 12,3
10	23074 <b>Becher mit Rillen</b> HH 15/6	8 / 12

Order-no.		dimensions cm (approx.)
1	53440 <b>Echse</b> HH 466/23	23 L
2	56910 <b>Frösche</b> (3er) K149	3-4 L
3	31580 <b>Kürbis</b> HH 80/18	18 Ø, 18 H
4	31401 <b>Stelenspitze</b> HH304/14	13 Ø, 14 H
	31402 <b>Stelenspitze</b> HH304/26	16 Ø, 26 H
5	23660 <b>Hühner-Ei</b>	7 H
	31530 <b>Ei</b> HH36/15	15 H
	31550 <b>Großes Ei</b> HH36/25	25 H
6	54190 <b>Schiffchen</b> HH618/28	28 L
	54200 <b>Schiffchen</b> HH618/38	38 L
7	57270 <b>Herz</b> HH 368/15	15
	57280 <b>Herz</b> HH 368/20	20
8	57471 <b>Napf</b> HH 602/18	Ø unten 18
	57472 <b>Napf</b> HH 602/22	Ø unten 22
	57473 <b>Napf</b> HH 602/31	Ø unten 31

You can find **more moulds** (not on stock!) on our homepage [www.carl-jaeger.de](http://www.carl-jaeger.de)!



Production-technically it can occur that molds are moist.

We recommend the filler funnel for solid casting moulds (see on page 51).  
If used no refill necessary!

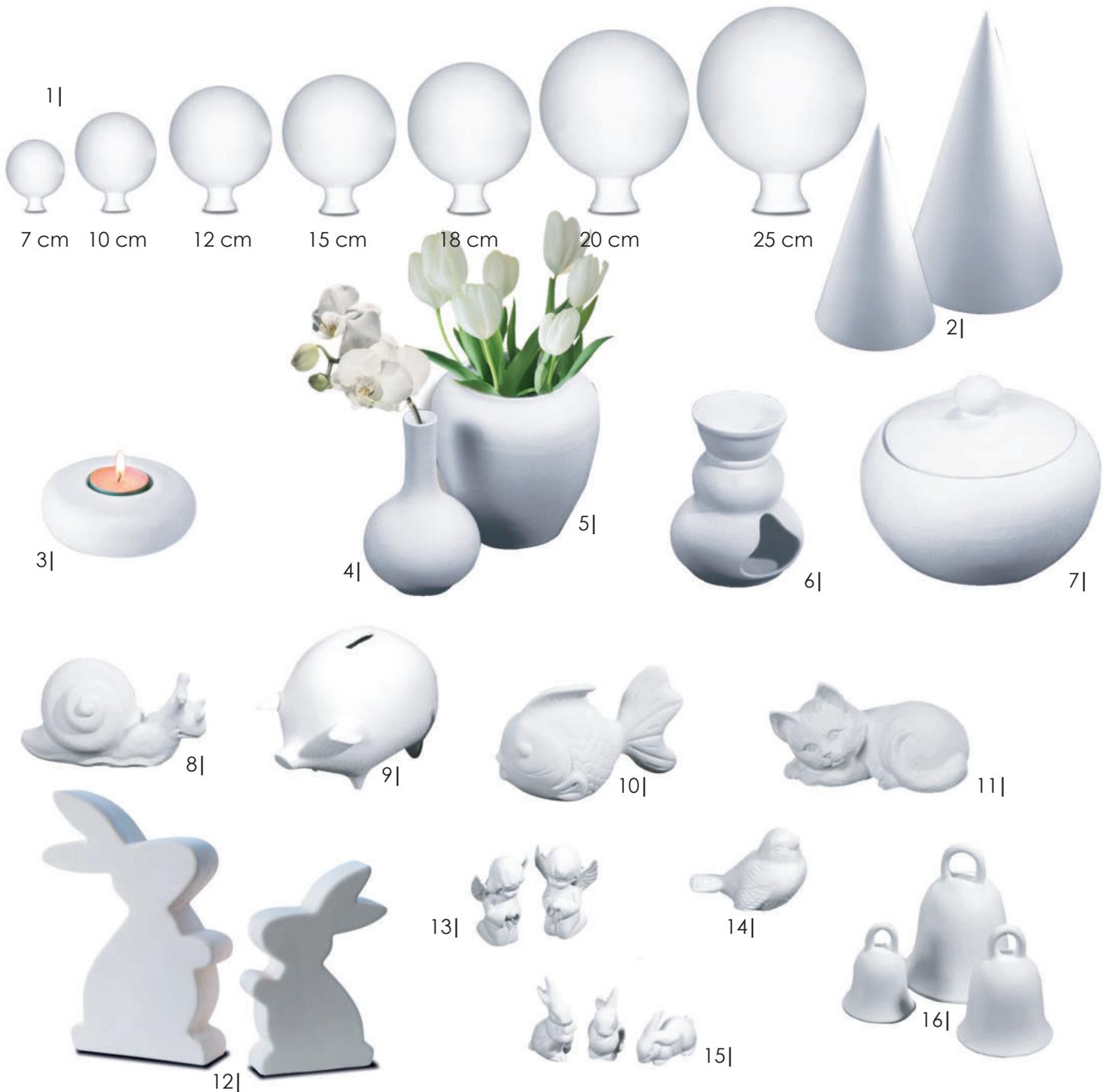


Order-no.	dimensions cm (approx.)
1  31290 <b>Schüssel</b> HH202/30	30 Ø
2  31280 <b>Schälchen</b> HH202/17	17 Ø
3  51950 <b>Schüssel</b> HH202/23	23 Ø
4  23210 <b>Kaffeepott</b> HH10/3	9 h, 11 Ø
5  23500 <b>Bierkrug</b> GF201	14 h, 0,5 L
6  51390 <b>Jumbo Tasse</b> HH 10/4	12,5 Ø, 9,5 h
7  23070 <b>Becher</b> (without handle) HH15	10 h
8  23090 <b>Schmalztopf</b> HH20	10 h
9  23080 <b>Suppentasse</b> HH16	13 Ø
10  23260 <b>Hohe Tasse</b> HH10/1	10 h, 8 Ø
11  23200 <b>Weinkrug</b> HH53/22	22 h / 1,5 L
12  23130 <b>Milchtopf</b> HH24	13 h, 17 Ø
13  23580 <b>Butterdose</b> GFP43+44	upper part, 6 h (bottom part ist solid casting) 22 L
14  23270 <b>Teekanne</b> HH100+100a	with cover 15 h
15  23290 <b>Stövchen</b> HH102	16 Ø
16  23280 <b>Teeschale</b> HH101	6 h
17  23050 <b>Tasse</b> HH10	6 h, 9 Ø
23010 <b>Unterteller</b> HH2/14	14 Ø(solid casting)
23020 <b>Teller</b> HH2/22	22 Ø(solid casting)
23030 <b>Teller</b> HH2/26	26 Ø(solid casting)
23040 <b>Teller</b> HH2/31	31 Ø(solid casting)
18  31350 <b>Suppen-Teller</b> HH9/24	24 Ø (solid casting)
31330 <b>Kaffee-Tasse</b> HH10/6	7 h, 9,5 cm Ø
31340 <b>Untertasse</b> HH 9/16	16 Ø (solid casting)
31300 <b>Teller</b> HH9/23	23 Ø (solid casting)
31310 <b>Teller</b> HH9/28	28 Ø (solid casting)
19  31380 <b>Zuckerdose</b> HH105+105a	with cover 11 h
20  31390 <b>Milchgießer</b> HH106	10 h

You can find **more moulds** (not on stock!) on our homepage [www.carl-jaeger.de](http://www.carl-jaeger.de)!



For prices, scan the QR code and enter the order-no.



Order-no.		dimensions cm (approx.)		
1	23700 <b>Kugel</b>	7 Ø	9	31010 <b>Schnecke</b> HH457/15 15l
	31460 <b>Kugel</b>	10 Ø	10	23140 <b>Sparschwein</b> HH34 17l
	23710 <b>Kugel</b>	12 Ø	11	23600 <b>Fisch</b> K17 16l
	31480 <b>Kugel</b>	18 Ø	14	23610 <b>Katze</b> K18 16l
	31490 <b>Kugel</b>	20 Ø		
	31500 <b>Kugel</b>	25 Ø	13	57460 <b>Hase</b> groß CT 243 H: 21 - B: 15
2	23720 <b>Rosenkugel</b>	15 Ø		57461 <b>Hase</b> klein CT 244 H: 15,5 - B: 11
3	31030 <b>Kegel</b> HH701/25 25 h		15	31000 <b>Engel</b> (Paar) DM544B 7,5 h
	54440 <b>Kegel</b> HH702/18 18 h		16	31170 <b>Spatz</b> K56 8l
4	56950 <b>Teelichthalter</b> K153 11,5 Ø		17	31140 <b>3 kleine Hasen</b> K69 6-7l
5	23460 <b>Orchideenvase</b> GF139 14 h, 9 Ø		18	23770 <b>Glocke</b> K90 8 h
6	23470 <b>Tulpenvase</b> GF140 14 h, 13,5 Ø			23780 <b>Glocke</b> K91 10 h
7	31130 <b>Aromalampe</b> K46 14 h			23790 <b>Glocke</b> K92 12 h
8	31210 <b>Dose</b> HH365/17+17a with cover 15 h, 17 Ø			

You can find **more moulds** (not on stock!) on our homepage [www.carl-jaeger.de](http://www.carl-jaeger.de)!

# 62 | Spray guns / compressor

For prices, scan the QR code and enter the order-no.



The spray guns consist of stable alu-bodies. Air nozzle, needle and air-cap are made of high-grade steel or brass respectively. The floating mug is of plastic. The wear parts can be replaced. The delivery includes also a **set of nozzles with diameter as you choose**, floating-mug and air-inlet for the connection to an air-plug.

Please name the **type** and sort of **air-nozzle-boring** upon ordering!



Order-no.type / description

- 15030 **SLIM 680** Universally applicable spray gun. High pulverising air cap. Light weight, ergonomic and reduced air consumption. Round / wide jet adjustment. Supplied in easy to use rigid plastic case containing all the accessories for a proper cleaning and maintenance. Possible nozzle diameter 1,3 | 1,5 | 1,7 | 1,9 | 2,2 | 2,5 mm
- 15075 **Pilot Trend** Good value spray gun for jobs in industry and workshops. Nozzle and needle made of stainless steel. Highly compressed aluminium body. Material flow rate and atomizing air flow adjustment. Round / wide jet adjustment. Possible nozzle diameter 0,8 | 1,0 | 1,2 | 1,5 | 1,8 | 2,0 | 2,5 mm
- 15071 **Pilot 1 (Dekorspritzpistole)** (*Spray gun for decorating jobs*) Very light and handy spray gun for fine spraying jobs, shading and decorating. Only for round jet. Possible nozzle diameter 0,3 | 0,5 | 0,8 mm
- 15060 **Optima EP** Dust and air gun. For blowing and cleaning of ceramic objects.



**Aerotec Zenith 270 TECH SILENT** mobile piston compressor in oil-free version. Maintenance-free 1 cylinder unit. Clearly arranged control unit for extraction of condensate-free compressed air. Large hard rubber wheels and transport handle. Two feet for a safe stand. Start-up relief via Condor pressure switch.

**Delivery includes 5 meter compressed air hose.**

Motor	1,1 kW / 1,5 PS
Connection	230 V / 50 Hz
Air tank	24 l
Boiler pressure max.	10 bar
Suction capacity	175 l/min.
Delivery	105 l/min.
Rotational Speed	1440 rpm.
Sound pressure level	85 LWA / 68 dB
Weight	30,5 kg

Order-no. 20012

Freight forwarding

Order-no. 15100 **Glaze spray system** Freight forwarding

Piston-compressor as described above. Air-gun SLIM 680 with flat- and round-stream blast-pipe 1,9 mm in diameter. 5 m connection tube with air-stick-connections

Order-no. 15101 **Tube and stick connections**  
Connection tube 5 m complete (including stick-connections)

**Components and spare parts on request!**



For prices, scan the QR code and enter the order-no.

The **KITTEC® SB-1** spray booth enables a dust-free work environment in the workshop when spraying glazes or ceramic paints. The booths have a fully enclosed working area which is only open at the front. An under-pressure is generated in the booth via a suction fan so that fine glaze or paint particles cannot escape from the spray booth. The **KITTEC®-SB-1** spray booth is ideal for smaller workshops and designed as a **convection model**. The sucked-in air is then filtered and returned to the room after cleaning. The robust and durable metal filter has several filter inserts offset to one another. At the rear, the cleaned air is returned to the workshop. To clean the galvanised metal filter, it is simply pulled out of its guide, then cleaned under running water. The **KITTEC®-SB-1** spray booth can be placed on a table or can be used on the **supplied chassis**. It is made of solid steel and is delivered ready for connection.

Internal measurements (w x d x h)	610 x 460 x 610 mm
External measurements (W x D x H)	650 x 760 x 1500 mm
Absorbency	2450 m³/h
Voltage	230 V
Weight	60 kg

Order-no. 15045

Spare parts / accessories for SB 1:  
Order-no. 15047 substitute filter

Delivery is only possible by a **carrier!** 



**KITTEC®**

### Substitute filter for Spray booth 255/255a:

Order-no. 15350

### Order-no. 20822 YSTRAL - Jet-mixer X50

Glazes, engobes and casting compounds can be prepared quickly and absolutely homogeneously with the YSTRAL jet mixer.

The mixer works with a stationary stator ring and a rotor rotating within the stator. The suction generated in this way forces every single particle of the substance to be processed into the jet chamber between the rotor and stator. The concentrated jet is propelled to the bottom of the container, where it whirls up all the particles that have been added or deposited. The vertical mixing principle reliably prevents the formation of a tumble and the associated air intake. The mixer can be used in almost any container.

The YSTRAL design (**no seal and bearings in the immersion area**) guarantees a long lifetime of the machine. They have proven their worth in the ceramics industry for decades. The **V4A steel** design allows easy cleaning by immersion in water or hosing down.

Speed	1500/3000 UpM (rpm)	Price, incl. motor switch and square ring handle and 3 spacer bars
Motor (two-position)	230/400 V	
Plug	CEE 16A	
Power	0,37/1,5 kW	
Immersion depth	550 mm	
Weight (approx.)	25 kg	Freight forwarding 

Further technical information as well as accessories (alterable speed, connection device, elongation of the machine and **bigger machines**) on request.



devices which keep the distance to the container bottom

**Ystral**  
110% MIXING SOLUTIONS



### Order-no. 20550 Mass- and glaze-pump TS II

This pump is especially suited for the improvement of abrasive media such as glaze, engobe and casting slip. It is an above-flood top-pump. The sucking in is done from the centre below. The pump is built with three feet so that it can easily be placed into the container (i. e. container no. 210). All parts which come into contact with the medium are rustproof steel. The tube with the caster (approx. 3 m to max. 5 m) can be attached on the tube-socket of the standpipe. With the caster the amount of outlet can be regulated during the filling of the casting-mold. Power of the pump: 1,1 kW - 3 x 400 V

Freight forwarding 

### Accessories

- Order-no. 20580 **Plastic caster**
- Order-no. 20570 Connection-tube of transparent PVC (per meter)





Freight forwarding 

Order-no.

15800 **Shelf carriage**

The shelf-carriage is used to store and transport ceramic half-ready pieces. The carry-tubes can be inserted on different heights. Carryshelves of 1500x300 mm can be used. The construction of the shelf-carriage is of square tubes. The solid tires can be adjusted in two different ways:

- Normal position  
2 caster wheels at both corners of the handle  
2 stable/unmoveable wheels on the diametrical corners
- Middle-axis (the carriage can be turned round on the spot) one wheel under each beam in front and in the back 2 stable wheels in the middle (see illustration)

The shelf carriage is delivered in disassembled parts including ten carry tubes.

Length without steering-handle	1000 mm
Breadth approx.	700 mm
Height approx.	1500 mm
Length of the carry-tubes approx.	600 mm
Distance between the holes for the carry-tubes approx.	150 mm

Order-no.

15200 **Settling tank TA 85**

The ROHDE TA 85 – environmentally conscious, flexible in use, easy to clean. Thanks to its ability to connect to almost any drain, the TA 85 is extremely flexible and can be installed under sinks and washbasins. It comes complete with a siphon and inlet connection. A tight-fitting cover is included as standard.

Technical data:

Ext. dimensions (WxDxH)	375 x 575 x 525 mm
Weight	11 kg
Fill volume	70 l
Internal volume	85 l
Inlet height	525 mm
Siphon height	350 mm

Scope of delivery:

Basin made of durable and robust polypropylene homopolymer with removable divider. Powdercoated steel base frame with sturdy swivel castors with locking function. Tight-fitting cover. Flexible drain pipe. Easy-to-install siphon with various connections.



Order-no.15795

**KITTEC RS tabletop slab roller**

Designed for use in environments with limited space. Thanks to its extra large working dimensions, the KITTEC RS is suitable for many purposes. When the work is done, it is quickly and easily disassembled and stored in a space-saving manner. The sophisticated mechanics of the KITTEC RS tabletop slab-roller make it easy to shape clay into perfect plates. Two counter-rotating, galvanized cylinders roll the clay into slabs with consistent properties. Slab thickness is easily and precisely adjusted by turning a single, centrally installed crank handle. The integrated scale with millimetre precision guarantees exact and reproducible slab thicknesses.



Technical data:

W x D x H	900 x 590 (770 incl. handle) x 330 mm
Minimum size of the installation area	590 x 950 mm
Usable area	900 x 500 mm
Possible plate thickness	0 - 60 mm
Cylinder width	500 mm

15796 **Spare cloth** for this machine



For prices, scan the QR code and enter the order-no.

The slab-roller helps to roll the clay into regularly thick slabs. The clay is put in between the cloth which is part of the delivery. Thus, the clay does not stick to the roller or the work-plate. For

further processing the cloth is taken away and the desired forms can be cut out of the clay-slab.

Order-no.

## 15810 Slab roller

The distance between the higher press-roll and the work-plate can be adjusted between 0 to 10 cm according to the desired thickness of the clay. The press-roll is driven by manual power with the help of a turnstile. Via sprocket-wheels and chains the work-plate with the clay draws itself along under the roll. The work-plate runs on two wheels which absorb the counter-pressure. To change the clay-layer the work-plate can be completely taken off the roll-frame.

Standing area		550 x 600 mm
Outer measurements (l x w x h)		900 x 600 x 270 mm
Work-plate	(l x w)	900 x 500 mm
Useful area	(l x w)	800 x 450 mm
Press-roll	(l x Ø)	450 x 70 mm



Freight forwarding

## 15130 Spare cloth for this machine

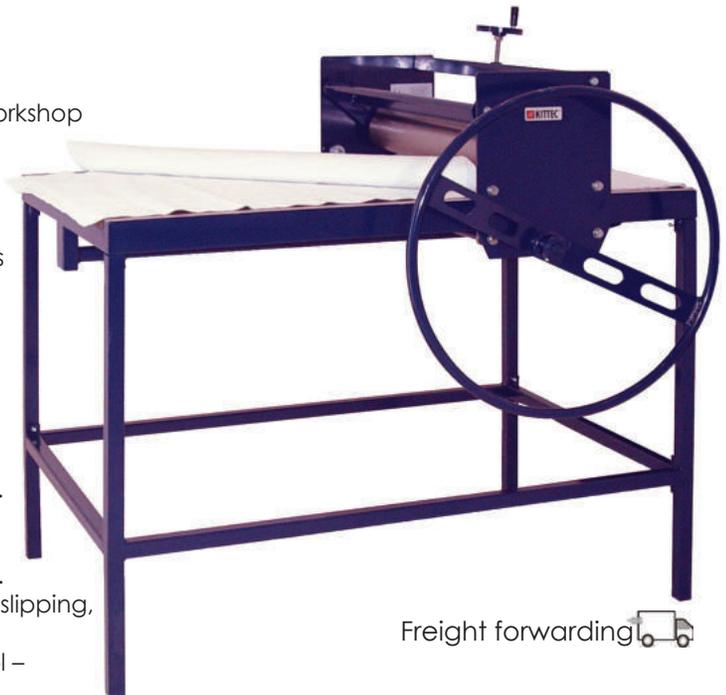


## 15792 Slab roller

The KITTEC RM-1 slab-roller is conceived for many years use in workshop and industrial operation. The rack and pinion propulsion inter-links smoothly and twitch-free during the power transmission. Via a single adjusting wheel in the centre the height can be set conveniently, continuously variable and precisely, using the measuring scale to achieve the best results. With just a few steps best results can be achieved. The KITTEC RM-1 slab roller can be used both free-standing and also as a table-top model.

Properties and special features:

- Continuously variable height adjustment using a central spindle, operated conveniently and centrally.
- Precision measuring scale for setting with millimetre accuracy. One turn – one measure.
- 8-way rolling device control with high-quality, encapsulated ball bearings – exact control of the carriage with no jamming.
- Large handwheel with maximum grip for easy operation – no slipping, you have the clay under control.
- Rolling device with rack and pinion propulsion, precise control – robust, durable and exact.
- Galvanised roller with large diameter – minimal amount of force during rolling procedure.
- Table top made from moisture-resistant Multiplex – always the best, absolutely flat slabs.
- Robust linen cloth, easy to change and well secured. A clean affair.
- Solid table frame with removable feet. No bending! Can also be used as table-top model.



Freight forwarding

Technical data:

Measurements (LxWxH)	1160 x 850 mm x 1300 mm
Usable area (LxW)	800 x 675 mm
Possible plate thickness	0 – 90 mm
Weight	approx. 70 kg

CE labelling  
36 months warranty

## 15793 Spare cloth for this machine

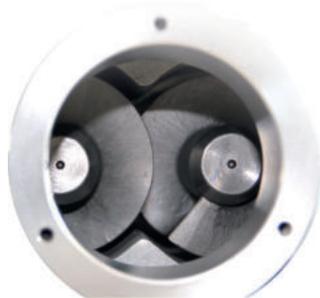




The **pugmill NRA series** (extruders) are remarkable because of their compact construction and noiselessness. All types are equipped with double-spirals. This increases the mixing-effect and makes the filling in of the clay easier. The case of the machines is out of rustless Aluminium-case-hardening (in the case of pugmill NRA 04S of high-grade steel).

For cleaning purposes all extruders can easily be taken off. They are delivered including safety equipment and wheel-table.

Pugmills are an important help when preparing masses. They homogenize and stabilize the masses to a cord. However, pugmills cannot extrude superfluous water from the masses.

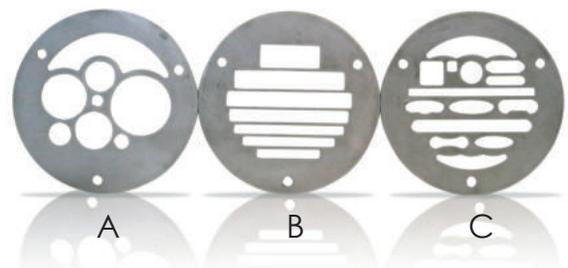


Model Order-no.	Freight forwarding 	<b>NRA 04 20100</b>	<b>NRA 04S 20110</b>
Main motor		200 W, 50 Hz	200 W, 50 Hz
Connection		230 V, 1-phased	230 V, 1-phased
* Power		400 kg/h	400 kg/h
Ø of the mouth-piece (mm)		90	90
Size of the filler-hole (mm)		135 x 133	135 x 133
Measurements l x w x h (mm) (including supporttable or wheel-table)		1025 x 335 x 560	1025 x 335 x 560
Material of the double-spiral		high-grade steel	high-grade steel
Material of the case		aluminium cast	high-grade steel
Weight (net/wrapped-in)		65 kg / 75 kg	75 kg / 85 kg

\* The dates for the power given in the catalogue are theoretical dates. In practice half the power can be achieved.

**Patterns** made of stainless steel. Fits to the **NRA, NVS or NVA** models of Shimpo. Delivered with matching screws and Allen wrench.

- Order-no. 20095    Pattern A
- Order-no. 20096    Pattern B
- Order-no. 20097    Pattern C





For prices, scan the QR code and enter the order-no.

# Vacuum pugmill / Vacuum mixer | 67

The **vacuum pugmill NVA 04S** has the same function as the pugmill but is additionally equipped with a vacuum-cabin in which the masses can be exhausted. Working with exhausted masses has advantages when throwing and handbuilding.

The Shimpo vacuum pugmill is remarkable because of its compact construction and noiselessness. The machine is equipped with double spirals. This increases the mixing-effect and makes the filling-in of the clay easier.

With the **vacuum mixer NVS 07** dry as well as wet clay can be mixed. Additionally, clay can be evacuated.



**Nidec**  
NIDEC-SHIMPO CORPORATION



**NVA 04S**  
\* oilfree \*



**NVS 07**

Both machines are **also suitable for porcelain masses** since all parts which come into contact with the mass are made of rustfree high-grade steel!

For cleaning purposes all extruders can easily be taken off. All machines are delivered **including safety equipment and wheel-table** for the clay-cord..

Model Order-no.	Freight forwarding 	<b>NVA 04S</b> 20090	<b>NVS 07</b> 20120
Main motor		400 W, 50 Hz	750 W, 50 Hz
Motor of the vacuum pump		250 W, 50 Hz	250 W, 50 Hz
Connection		230 V, 1-phased	230 V, 1-phased
* Power		200 kg/h	150-300 kg/h
Ø of the mouth-piece		90 mm	90 mm
Size of the filler-hole (mm)		135 x 133	290 x 210
Measurements l x w x h (mm)		1320 <sup>1)</sup> x 420 x 750	1200 <sup>2)</sup> x 420 x 890
Material of the double spiral		high-grade steel	high-grade steel
Material of the case		high-grade steel	high-grade steel
Weight (net/wrapped-in)		140 kg / 190 kg	140 kg

<sup>1)</sup> incl. supporttable or roller table

<sup>2)</sup> incl. base plate

\* The dates for the power given in the catalogue are theoretical dates. In practice half the power can be achieved.

## supplies

Order-no. 14650 **Vacuum-Oil**



← Tischmodell  
RK-5TF  
with foot-pedal or

Shimpo **RK-5T** or **RK-5TF** is very suitable for hobby or classroom needs as well as for decoration works. Ideal also as demonstration model for potters' markets. Two detachable wheel-heads made of plastic and a splash-pan in one piece are part of the delivery.

RK-5T  
with hand-handle →



RK-55



Shimpo **RK 55** has a large storage surface and a flexible foot-pedal. Customers from the hobby or school sector will like its good tractive powers.



Whisper-T

Shimpo **Whisper T** was especially developed for the hobby and school sector. It is adjustable in height and can be used also as table-top potter's wheel or banding-wheel since the legs can be detached.

RK-3D



Shimpo **RK 3D** fascinates because of its silent running and its high tractive power. It has a brushless direct drive motor (direct current) which has a high torque at all speeds. Combined with a "high-tech" positive feedback controller the motor will maintain the chosen speed under all load conditions, even under downward pressure. No annoying noise or vibration is felt since there are no belts, gears or drive components. This guarantees an extremely smooth running when throwing a piece. The motor is the only internal building part in a closed rugged metal case. Switching the wheel on or off can be done very precisely. The wheel-head made of aluminum has a diameter of 300 mm. The wheel-head turns freely in the off position of the motor which allows it to be used as banding wheel. The inbuilt motor safety switch protects the machine against overstrain.



RK-3E

Height adjustable! Maximum working height (height of the wheel head) 580 mm.

Shimpo **RK 3E** has a wheel-head with 350 mm diameter. The smooth-running and flexible foot pedal allows a comfortable and easy variation of speed. Because of the detachable legs it can also be used as table-top wheel. Also RK 3E can be used as banding wheel if the motor is switched off!



Für Preise QR-Code  
scannen und Best.-Nr.  
eingeben

### Technical data and prices

\* Freight forwarding

Order-no.	Model	Motor	Speed* steplessly variable	Measurements (l x w x h) mm	Wheel-head mm	Ship-weight
20382	<b>RK 5 T</b>	100 W, 230 V	0 - 230 (rpm)	510 x 365 x 230	250 Ø	14 kg
20383	<b>RK 5 TF</b>	100 W, 230 V	0 - 230 (rpm)	510 x 365 x 230	250 Ø	14 kg
20381*	<b>RK 55</b>	100 W, 230 V	0 - 250 (rpm)	730 x 560 x 550	300 Ø	38 kg
20380*	<b>Whisper T</b>	300 W, 230 V	0 - 250 (rpm)	750 x 572 x 580	300 Ø	45 kg
20370*	<b>RK 3 E</b>	400 W, 230 V	0 - 250 (rpm)	702 x 590 x 580	350 Ø	55 kg
20350*	<b>RK 3 D</b>	400 W, 230 V	0 - 250 (rpm)	582 x 525 x 515	300 Ø	53 kg

\*optionally with or against the clock

### Splash pans

Order-no.

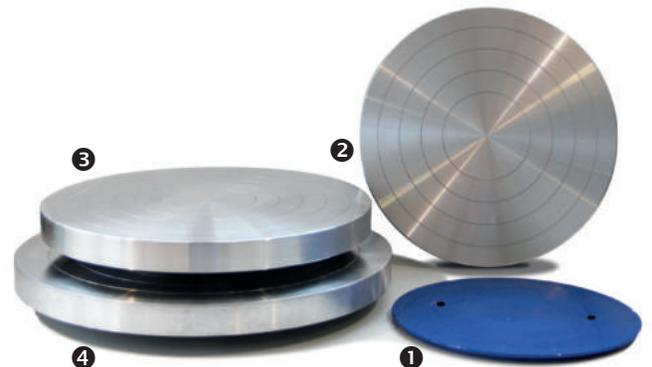
- ❶ 20005 suitable for RK-55, RK-3E, Whisper-T
- ❷ 20002 suitable for RK-3D
- ❸ 20007 suitable for RK-5T und RK-5TF



### Aluminum casted wheel head without bolt

Order-no.

- ❶ 20006 for **RK-5T/TF** (made of plastic)
- ❷ 15180 **300 mm Ø** without bolt  
suitable for **RK-55, Wisper-T** und **RK-3D**
- ❸ 20004 **350 mm Ø** without bolt  
suitable for **RK-3E**
- ❹ 15190 **400 mm Ø** without bolt  
Can be used on our Shimpo Potter's Wheels without splash pan (except RK 5T or TF)



Order-no. 14155

### Apron

with split legs, one breast pocket and two side pockets. The strap is adjustable. One size fits all. 100% cotton.



Order-no. 20391 **Potter's stool**

Light and nevertheless solid type with easy-to-clean (washable) plastic seat. Adjustable in height from 48 to 66 cm sitting height (load capacity up to 140 kg).



## Wheel head (with bolts) and MDF board

The wheel-head is equipped with two bolts that fit into the two holes in the MDF plate. The MDF plate can be lifted off the wheel-head with the turned objects. This prevents large pieces from becoming deformed when lifted. Available in 2 versions: 350 mm Ø or 300 mm Ø.



Order-no.

### Variant 1 → 350 mm Ø suitable for RK-3E

- 15095 **Set** wheel-head with MDF plate „A“
- 15093 **MDF plate** „A“single

### Variant 2 → 300 mm Ø suitable for RK 55, Whisper-T and RK-3D

- 15160 **Set** wheel-head with MDF plate
- 15172 **MDF plate** single

from our previous system:

- 15090 **WODDEN plate** „B“ single  
350 mm Ø  
→ **Holedistance 300 mm**



Order-no. 15020

## Removable disk system (Bat-System) Set from mm thick MDF (1 item each 1-6)



- Supporting plate
- Adapter
- Insertion plate

### Spare parts / individual parts

- 1 15021 Supporting plate 300 Ø  
hole distance 255 mm
- 2 15022 Adapter 200 to 100 mm
- 3 15023 Adapter 200 to 150 mm
- 4 15024 Insertion plate 100 x 100 mm
- 5 15025 Insertion plate 150 x 150 mm
- 6 15026 Insertion plate 200 x 200 mm



For prices, scan the QR code and enter the order-no.

# Jar mill, milling jars, grinding balls | 71

The jar mills are the driving machines for the mill pots. These are used in laboratories and industry for wet and dry milling of hard materials, frits, stones, glazes and enamel. The mill pots are laid on to the gummed rollers. Thus, mill pots in various sizes can be used without

having to adjust the machine. By varying the length of the milling-time each desired fineness can be achieved.

Order-no. price including motor safety-switch

## 20420 Mini jar mill

Superstructure steel-frame  
 Length x breadth x height 460 x 410 x 280 mm  
 Wave-length (useable) 300 mm  
 Engine power 0,37 kW  
 Voltage 230 V  
 Mill pots which can be used 1 to 5 L  
 Weight approx. 19 kg

- Moving force via cone belt

The delivery is without power cable and without mill pot.



Order-no.

## 20400 Jar mill

Superstructure steel-construction  
 Length x breadth x height 940 x 530 x 390 mm  
 Wave-length (useable) 720 mm\*\*  
 Engine power 0,37 kW  
 Voltage 230 V  
 Mill pots which can be used 1,5 to 10 L  
 Weight approx. 52 kg

- Moving force via cone belt

\* including on-/off-switch, cable and plug (without mill pot and filling with balls)

\*\* Can also be delivered with a usable wavelength of 1000 mm for a surplus.



## Hardporcelain mill pots

Order-no. type complete content\* outer-Ø mm height mm price without balls

### Filling with balls

Order-no.

**Glazed inside and outside** (except top and bottom of the vessel)

26150	Bloch-Rosetti	0,3 L	135	95	26160
26600	GSK/0	1 L	135	175	26020
26610	GSK/0a	1,5 L	150	215	26040
26620	GSK/0b	3 L	200	240	26060
26630	GSK/1	5 L	225	285	26080
26640**	GSK/1x	10 L	285	335	26100

**Glazed outside (inside unglazed):**

26700	224/0	1,3 L	150	230	26010
26701	224/1	4,0 L	250	250	26011
26702	224/2	6,0 L	250	290	26012

\* The useable content of the pots is half of the complete content. (i. e.: 5 L mill = 2,5 L grist)

\*\* Freight forwarding!



## Milling balls of aluminum oxid

serve as milling bodies in drum-mills and hard-porcelain mill pots. The heavy balls of Al<sub>2</sub>O<sub>3</sub> contain an aluminum-oxid proportion of approx. 92%. The specific weight is approx. 3,65g/cm<sup>3</sup>. The Mohs' hardness is 9. Larger amounts on request.

Order-no.	ball Ø	ball weight	Graduated prices for purchases of 1 kg, 10 kg, and 25 kg
26210	20 mm	15 g	
26510	30 mm	50 g	
26520	40 mm	119 g	
26530	50 mm	233 g	
26540	60 mm	402 g	





We will send you our leaflet for the handling of new kiln plates upon request!



Ofenplatten aus Cordierit



## Kiln plates for burning temperatures up to 1300°C

Order-no.

### Angular

21831	600 x 500 x 20 mm
21011	590 x 450 x 20 mm
21021	490 x 440 x 17 mm
21031	490 x 350 x 17 mm
21041	400 x 390 x 15 mm
21051	370 x 340 x 15 mm
21061	370 x 270 x 14 mm

→  
→ Freight forwarding

### Round

21101	Ø 310 mm, 10 mm
21111	Ø 350 mm, 10 mm
21161	Ø 380 mm, 10 mm
21121	Ø 420 mm, 12 mm
21131	Ø 470 mm, 15 mm
21151	Ø 520 mm, 18 mm
21141	Ø 550 mm, 18 mm

→  
→ Freight forwarding

### Punched (delivery is only possible by a carrier)

21891	590 x 520 x 17 mm
21861	490 x 440 x 17 mm
21881	490 x 350 x 17 mm
21895	Ø 550 mm, 18 mm

→  
→ Freight forwarding

21190 **Cut** to desired size

## Batwash for kiln plates for burning temperatures up to 1340°C

Order-no.  
21220

Protects your plates! (for example against glaze run-off)



## Props for burning temperatures up to 1300°C

Order-no.	No.	Height mm	Volume discounts for orders of 20 or more items
21300	1/ 300	300	
21330	1/ 200	200	
21340	1/ 150	150	
21350	1/ 100	100	
21360	1/ 50	50	
21320	1/ 25	25	

Order-no.	No.	Height mm	Volume discounts for orders of 20 or more items
21513	60/300	300	
21512	60/200	200	
21511	60/100	100	
21510	60/ 50	50	
21514	60/ 25	25	

wall thickness approx. 5 mm  
Ø 40 mm

wall thickness approx. 15 mm  
Ø 60 mm



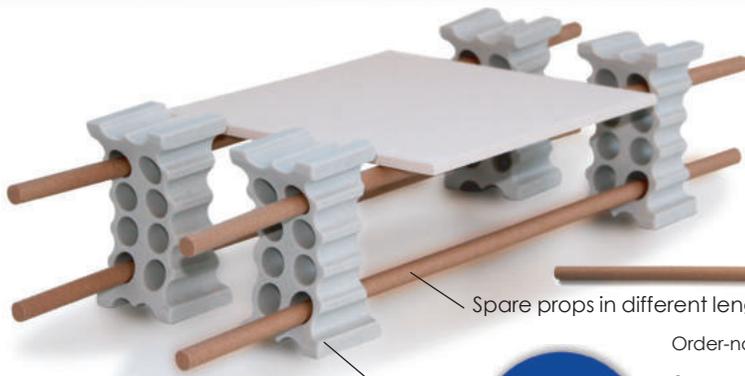
Höhe  
Durchmesser

## Kiln props for burning temperatures up to 1280°C

Order-no.	name	Ø mm	Height mm	Volume discounts of 100 pieces
21250	45/45 (mit Falz)	45	40	
21260	45/20 (ohne Falz)	45	20	



For prices, scan the QR code and enter the order-no.



## Spar props – spar supports

for burning temperatures up to **1150°C**

The endurance of the saving props depends on the temperature, the burning time and the distribution of the load. This means that it has to be tried out every use.

Spar supports

Spare props in different lengths

Only while stocks last!

Order-no.

Dimensions

### Spar props

21900

275/8 mm

21910

370/8 mm

### Spar supports

21940

76 x 37 x 40 mm



## Tile crank for burning temperatures up to **1250°C**

Suitable for tiles of 15x15 cm (not included)

Order-no.

Dimension cm (l x w x h)

21540

15 x 18 x 20

Freight forwarding

Tiles on page 33

## U-capsules for the burning of plates up to **1280°C**

Order-no. 21200

Outer measurements: 272 x 230 x 42 mm

Rest: 250 x 230 mm

Max. thickness of plate: 22 mm

Interspace: 32 mm

Quantity prices from 20 items

Freight forwarding



Single purchase. **No set!**



Single purchase. **No set!**

## Plate support for burning temperatures up to **1280°C**

These supports have a full rest for the food of the piece to be burnt. A distortion of the pieces at high burning temperatures is thus avoided.

Freight forwarding

Order-no.	No.	Max. Ø of the piece to be burnt	Max. Ø of the foot of the piece	Clear height	Quantity prices from 20 items
21460	845/30	210 mm	160 mm	30 mm	
21470	846/45	230 mm	180 mm	45 mm	
21490	847/45	270 mm	200 mm	45 mm	
21480	848/45	300 mm	235 mm	45 mm	
21590	849/40	350 mm	270 mm	40 mm	

## Tripods for burning temperatures up to **1280°C**

Order-no.	No.	Distance   Height (approx.) mm	Box-content approx. pieces
21601	01	25   9	5.000
21611	02	35   10	3.500
21621	03	50   13	1.500
21631	04	55   15	1.350
21671	05	60   20	1.000
21641	06	75   25	440
21651	07	87   35	350

21661 **Assortment of tripods** consisting of approx. 50 pieces 01-05 mixed





## Three-cornered ledges for burning temperatures up to 1280°C

Minimum purchase-amount: 100 pieces per sort

Order-no.	name	Length mm	Height mm
21700	50/10	50	10
21710	39/7	39	7
21720	32/5	32	5

## Made of heat resistant material for temperatures up to max. 1250°C

The endurance of this kiln furniture depends on the one hand on the burning temperature, on the other hand heavily also on the weight of the pieces to be burnt. We recommend to try out every use.

### Single prop 16 mm in diameter, with 9 mm high disengagement, 1 mm thick

Order-no.	name	From 100 pcs.
27460	ES 16	<b>20 % discount</b>



### Mini three-cornered prop, height approx. 6 mm, 1 mm thick

Order-no.	name	Distance of tips	From 100 pcs.
27450	MD 20	20 mm	<b>20 % discount</b>

### Metal tripods (heavy sort)

Order-no.	name	Leg-length mm	From 10 pcs. per sort
27620	MD 25	25 mm	<b>20 % discount</b>
27630	MD 35	35 mm	<b>20 % discount</b>
27650	MD 50	50 mm	<b>20 % discount</b>
27670	MD 75	75 mm	<b>20 % discount</b>



Set 11



Set 14



Set 32

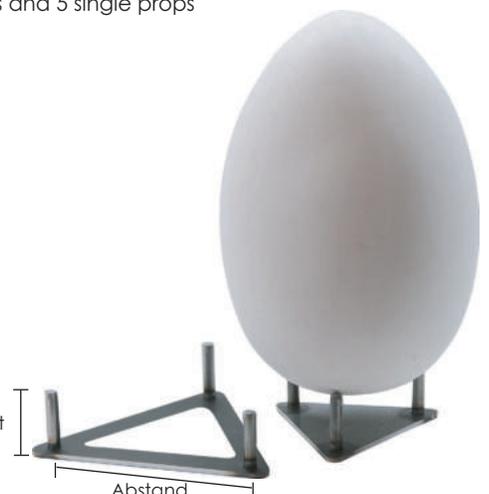
### Assortment of metal tripods

Order-no.	Consisting of:	From 10 assortments
27682	Set 11 - 11 metal tripods 5 x 25   5 x 35   1 x 50 mm	<b>20 % discount</b>
27680	Set 14 - 14 metal tripods 4 x 25   4 x 35   4 x 50   2 x 65 mm	<b>20 % discount</b>
27690	Set 32 - 14 metal tripods 8 x 25   4 x 35   3 x 50   2 x 65 mm 10 mini three-cornered props and 5 single props	<b>20 % discount</b>

### Tripod heavy sort

Strength of peak approx. 5 mm, plate approx. 2 mm  
Ideal for high temperatures and Raku. Glazed objects have only 3 small points of contact with the glaze!

Order-no.	Name	Distance	Height	From 10 pcs.
27615	50/25	50 mm	23 mm	<b>20 % discount</b>
27618	80/25	80 mm	23 mm	<b>20 % discount</b>





For prices, scan the QR code and enter the order-no.

The endurance of this kiln furniture depends on the one hand on the burning temperature, on the other hand also heavily on the weight of the pieces to be burnt. We recommend to try out every use.

Order-no. Name Dimensions

**Manifold racks** including 5 bars (3 mm Ø). Made of heat-resistant metall for temperatures up to **1250°C**

- 27360 **MSK 130** h 135 x l 155 x d 80 mm
- 27350 **MSK 95** h 110 x l 155 x d 60 mm



**Bars** (single)

Made of heat-resistant metal for temperatures up to **1250°C**

- 27520 **BS 2** l 200 mm, Ø 2 mm
- 27530 **BS 3** l 200 mm, Ø 3 mm
- 27540 **BS 4** l 250 mm, Ø 4 mm



**Tile Holder** (set of 4) to hook into the manifold rack  
MSK 130 (supplied without MSK 130)

- 27361 **KH 4** 20 x 14 x 20 mm

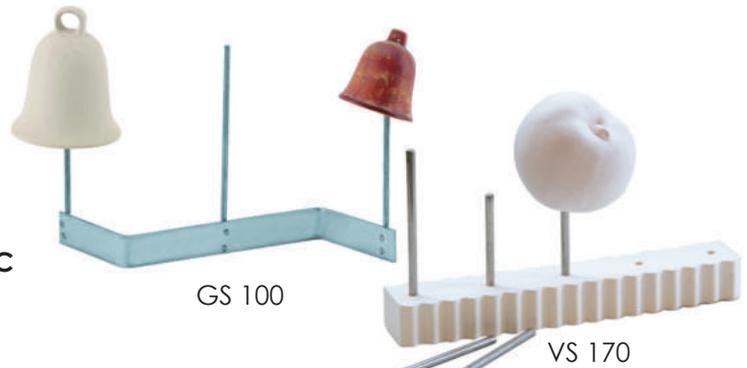


Tile holder (Set of 4 pcs.)

**Bell-rack** with 3 tops (4 mm in diameter)

Made of heat-resistant metal for temperatures up to **1250°C**

- 27100 **GS 100** l 170 x h 100 mm



**Vario rack**

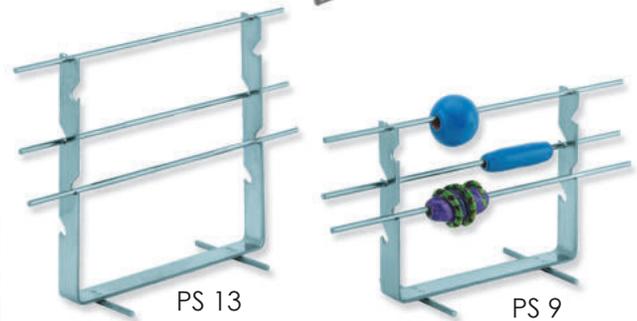
Made of cordierit and Ker60 for temperatures up to **1300°C**

- 27376 **VS 170**  
shaped brick 170x25x15 mm,  
with 5 holes and two bars each (4 mm in diameter):  
60, 80, 100 mm high

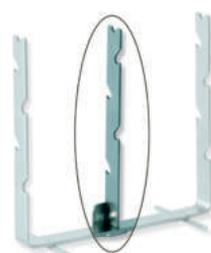
**Pearl rack** incl. 3 burning wires

Made of heat-resistant metal for temperatures up to **1250°C**

- 27330 **PS 13** l 140 x h 130 mm (Ø wire 3 mm)
- 27290 **PS 9** l 120 x h 90 mm (Ø wire 2 mm)



- 27295 **Center bar** suitable for **PS 13**  
prevents sagging of the bars



**Vario rack**

Made of cordierit and Ker60 for temperatures up to **1300°C**

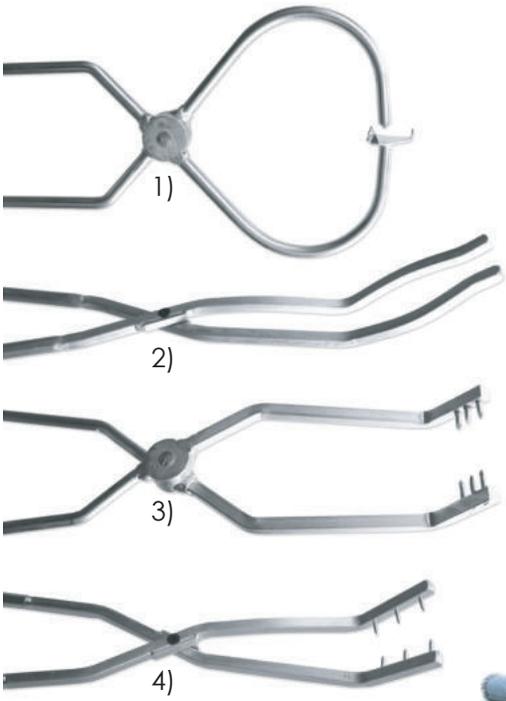
- 27375 **VS 60** H 200 mm (Ø rods 3 mm)
- 27371 **VS 250** H 250 mm (Ø pipe 15 mm)
- 27370 **VS 200** H 200 mm (Ø pipe 15 mm)



**Mass discount**



Purchasing 10 pcs. of a sort **20% off**  
Bars: 20 pcs. of a sort



Order-no.		Total length (approx.)
1) 19530	<b>Rakutongs</b> RZ 4 made of steel	77 cm
2) 19510	<b>Rakutongs</b> light version	100 cm
3) 19540	<b>Rakutongs</b> RZ 6 made of steel with teeth	85 cm
4) 19520	<b>Rakutongs</b> light version with teeth	80 cm
19060	Heat-protection <b>finger-gloves</b> heat-resistant up to 200°C	35 cm
19061	<b>Gloves</b> Sebatan-leather (lined) heat-resistant up to 180°C (contact-heat)	35 cm
19080	<b>Gloves</b> Raku-mittens	42 cm



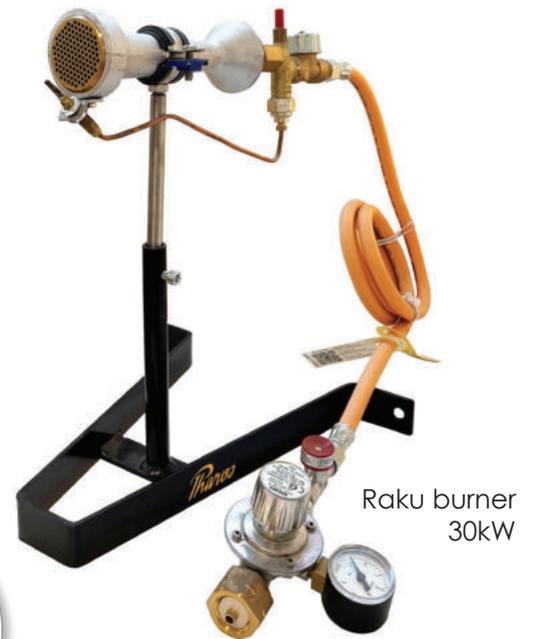
**Accessories**

Order-no. 19198  
**Raku burner (30 kW)** including all fittings to gas bottle (adjustable pressure reducer, manometer, hose breakage protection, 2 m hose, ignition safety device)

See illustrations on the right:

Order-no. 19816 + 19890  
**Digital pyrometer** with sheathed thermocouple NiCr-Ni 160 mm long **up to 1150°C** with closed connection head and 2 m compensating cable

Order-no. 19095 + 19110 + 19850 + 19112  
**Digital pyrometer** with thermocouple PtRh-Pt 160 mm long **up to 1340°C** with closed connection head, 2 m compensating cable and plug



Raku kilns on request!



**Self-made material**

- 21550 **Feuerleichtsteine** (insulation fire-bricks, 2<sup>nd</sup> choice\*) Measures approx. 228 x 114 x 76 mm, heat-resistant up to 1320°C
- 21560 **Fasermatte (Fibre-mat)** (does not need to be marked) heat-resistant up to 1200°C. Measures: 61 cm broad, 25 mm thick  
 Minimum purchase-amount: 1 meter  
 Complete roll: (7,3 m long)

\* Discolouration, chipping, cracks and possible

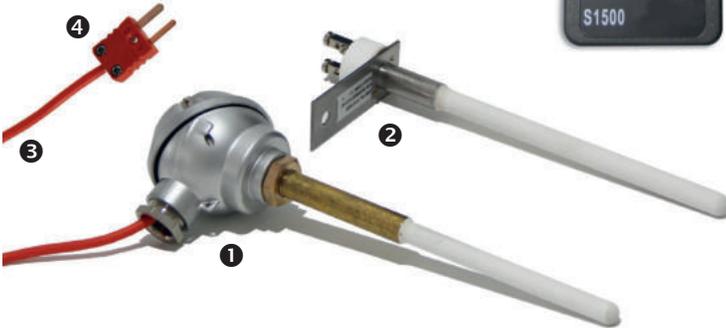


For prices, scan the QR code and enter the order-no.

**Digital pyrometer S 1500 (PtRh-Pt)** can be used for any type of **S-type** temperature sensor. The temperature can be measured in Celsius or Fahrenheit. Display range **-50 to 1600°C**. To operate a 9V battery is required (included in delivery).

Supplied with storage bag.

Order-no.19095



**Thermocouples PtRh-Pt Type S up to 1340°C**

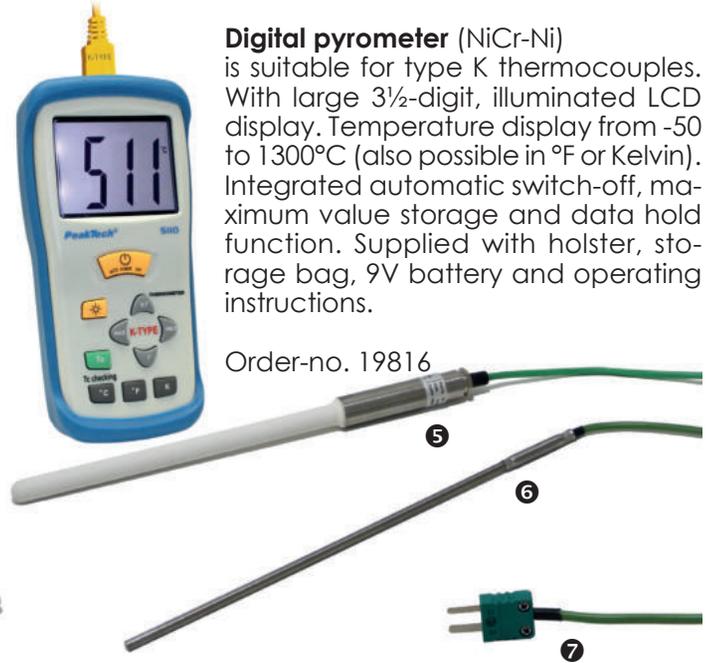
(Delivery without balance cable and without plug)

length	with head Order-no.	with connecting clip Order-no.
<b>140 mm</b>	19840	19120
<b>160 mm</b>	19850	19130
<b>200 mm</b>	19860	19150
<b>250 mm</b>	19870	19140
<b>300 mm</b>	19880	19160

- 19110 **Balance cable** (per meter)
- 19112 **Plug Type S/R**

**Digital pyrometer (NiCr-Ni)** is suitable for type K thermocouples. With large 3½-digit, illuminated LCD display. Temperature display from -50 to 1300°C (also possible in °F or Kelvin). Integrated automatic switch-off, maximum value storage and data hold function. Supplied with holster, storage bag, 9V battery and operating instructions.

Order-no. 19816



**Thermocouples NiCr-Ni Type K up to 1200°C**

(Delivery incl. 2 m balance cable, without plug)

- Order-no.
- 19820 **160 mm** long
- 19830 **300 mm** long
- 19114 **Plug Type K**

**Sheath thermocouple NiCr-Ni Type K up to 1150°C**

Only suitable for Raku - not for electric furnaces  
(Delivery incl. 2 m balance cable and plug)

- 19890 **160 mm** long

**Thermocouples with other lengths** or for different ranges of temperature on request

Order-no. **Accessories for kilns**

- 19170 **Exhaust air wire** – flexible spiral-pipe made of two layers of aluminum, temperature-stable up to 200°C, inner-diameter: 90 mm, outer-diameter: 97 mm
  - 19180 **Band-clip**, rustfree, clamp-range: 60-115mm
  - 19050 **Supporting-tube** Ø 15 x 600 mm long
  - 19051 **Supporting-tube** Ø 20 x 700 mm long
  - 19052 **Supporting-tube** Ø 25 x 600 mm long  
Cut to desired length
  - 14272 **Heating wire** 3,0 mm Ø max. 1340°C
  - 14274 **Heating wire** 2,5 mm Ø max. 1340°C
  - 14250 **Heating wire** 2,0 mm Ø max. 1340°C
  - 14260 **Heating-wire** 1,5 mm Ø max. 1340°C
  - 14270 **Heating wire** 1,0 mm Ø max. 1340°C
  - 14276 **Heating wire** 0,5 mm Ø max. 1340°C
- Can also be used to burn pearls. If 10 m of one sort are purchased: **10% discount**.  
Larger amounts and different diameter on request.
- 19040 **Cramp** 40 x 6 mm opening
  - 19041 **Cramp** 60 x 6 mm opening
  - 19045 **Overhead-line cramp** 2,5 - 16 mm²



↪ **Repairing mass** on page 37.



## Arts & Crafts



Top 60



Top 100



Top 220

### Toploader up to 1320 °C

Discover the fascinating world of Nabertherm top loaders – they combine appealing design, easy handling and an unbeatable price-performance ratio. For you this means not only excellent firing results, but also the perfect support for your creative passion and projects in the workshop. We are sure you know the feeling of opening your kiln after firing and admiring the results of your work with excitement. Our top loaders will not let you down. The particularly easy-to-use controller reliably regulates your firing programs. Our top loaders are not simply kilns, they are a reliable partner for your everyday pottery work and support you in realizing your creative ideas.

#### Insulation

Our top loaders are equipped with energyefficient refractory insulation inside the chamber and microporous rear insulation that allows you to reach a top temperature of 1320 °C with minimum energy consumption.

- Three layers of high-quality 15 mm microporous rear insulation for top loaders up to 60 liters to ensure that you reach your firing temperature reliably

- Two layers of high-quality 20 mm microporous rear insulation for top loaders from 80 liters for a well-balanced ratio between energy-saving heating and shorter cooling times for the kiln

- **Automatic lid lock upon opening for additional safety**

#### Controller

- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 83

*Treat yourself to something special for your hand-crafted works of art!*

### Toploader up to 1320°C

Order-no.	Model	Innerdimens. mm w d h	Volulme L	Outerdimens. mm W D H	Weight kg	Power kW	Voltage	Power consump.	Conneting plug
90305	<b>Top 45</b>	Ø 410 340	45	600 890 790	66	3,6	230 V 1/N	15,7 A	Schuko
90307	<b>Top 45/L</b>	Ø 410 340	45	600 890 790	66	2,9	230 V 1/N	12,6 A	Schuko
19650	<b>Top 60</b>	Ø 410 450	60	600 890 910	74	3,6	230 V 1/N	15,6 A	Schuko
90315	<b>Top 80</b>	Ø 480 450	80	660 960 910	88	5,5	400 V 3/N	13,8 A	CEE 16 A
19700	<b>Top 100</b>	Ø 480 570	100	660 960 1030	97	7,0	400 V 3/N	10,1 A	CEE 16 A
90317	<b>Top 130</b>	Ø 590 450	130	780 1080 930	115	9,0	400 V 3/N	13,0 A	CEE 16 A
90319	<b>Top 140</b>	Ø 550 570	140	750 1040 1050	117	9,0	400 V 3/N	13,0 A	CEE 16 A
90321	<b>Top 160</b>	Ø 590 570	160	780 1080 1050	122	9,0	400 V 3/N	13,0 A	CEE 16 A
19710	<b>Top 190</b>	Ø 590 680	190	780 1080 1160	135	11,0	400 V 3/N	15,9 A	CEE 16 A
90325	<b>Top 220</b>	930 590 450	220	1120 1050 950	154	15,0	400 V 3/N	21,7 A	CEE 32 A



For prices, scan the QR code and enter the order-no.

Arts & Crafts  
**Nabertherm**



Top 16/R as tabletop model

**Toploader up to 1320°C**  
with increased  
connected load



Top 190/R



**Floor heating** available for all top loaders with a capacity of 80 litres or more at an additional cost.

Already included with the Top 220!

Many models  
available **from stock!**

**Toploader up to 1320 °C**  
**with increased connected load**

With their increased connected load and specially designed heating elements, our kilns in the Top .. R range are ideal for frequent use at high temperatures up to 1290 °C. They therefore represent an attractively priced alternative to our chamber kilns that meets professional requirements.

The increased connected load enables the kilns to heat up much faster. Regardless whether for biscuit firing, earthenware, overglaze firing, softpaste porcelain

or stoneware – our Top .. R kilns are designed ideally to meet your creative needs. The compact tabletop model Top 16/R even offers the option of perfecting glaze or sample specimens on a laboratory scale. Alternatively, for permanent professional use, we recommend our chamber kilns with five side heating.

*Let your art shine in a new dimension!*

### Toploader up to 1320°C

Order-no.	Model	Innerdims. mm		Volume L	Outerdims. mm			Weight kg	Power kW	Voltage	Power-consump. A	Connecting plug
		Ø	h		W	D	H					
90300	<b>Top 16 /R</b>	290	225	16	490	740	555	40	2,6	230 V 1/N	11,3 A	Schuko
90309	<b>Top 45 /R</b>	410	340	45	600	890	790	66	5,5	400 V 3/N	13,8 A	CEE 16 A
19720	<b>Top 60 /R</b>	410	450	60	600	890	900	74	5,5	400 V 3/N	13,8 A	CEE 16 A
90316	<b>Top 80 /R</b>	480	450	80	660	960	910	88	7,0	400 V 3/N	16,0 A	CEE 16 A
19705	<b>Top 100 /R</b>	480	570	100	660	960	1030	97	9,0	400 V 3/N	13,0 A	CEE 16 A
90320	<b>Top 140 /R</b>	550	570	140	750	1040	1050	117	11,0	400 V 3/N	15,9 A	CEE 16 A
19715	<b>Top 190 /R</b>	590	680	190	780	1080	1160	135	13,5	400 V 3/N	20,0 A	CEE 32 A



## Arts & Crafts

Nabertherm

NE 280



NE 40

as tabletop model



- Infinitely adjustable fresh-air inlet
- Scope of delivery includes an option for connecting an exhaust air pipe (80 mm diameter)
- Low noise electronic relays Controller
- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 83

*Art that's fun!*

### Chamber kilns heated from three sides

Are you looking for a very special kiln for use in a public institution or for your hobby? In this case, our kilns in the NE product line with heating elements in grooved bricks on three sides and an unbeatable price performance ratio are the perfect choice for you. This kiln range is based on the durable design of our professional chamber kilns in combination with the product benefits of our NE product line.

If you want to use the kiln intensively and regularly pack it tightly, we recommend our chamber kilns with heating from five sides. A controlled air inlet flap is included with the standard delivery. After the drying phase in the heating program, the flap closes semi-automatically at a chosen temperature without you having to do anything.

#### Standard equipment

- Heating elements protected in grooves
- Heating from three sides (both sides and floor)
- Three ceramic shelves and lower shelf to protect the bottom insulation and for safe stacking of the furniture
- Base frame included in the scope of delivery
- Controller
- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 83

*Experience intuitive technology that makes your work much easier!*

### Chamber kilns heated from two sides

Are you looking for a kiln that you can load from the front via a large door and that also has an outstanding price-performance ratio? In this case, the NE product line from 40 to 100 liters is the perfect choice for your ceramics. The heating elements are protected in grooved bricks to ensure that they are not damaged when you load the kiln. With its appealing design, this kiln product line is the perfect choice to meet your needs. These versatile chamber kilns are ideal for ceramics but can also be used for glass or porcelain painting or simple fusing work. Most of our models are in stock and can be delivered immediately. The infinitely adjustable fresh-air opening in the door and the exhaust air opening in the roof not only optimize ventilation of the kiln chamber, they also speed up cooling so that you can touch and be fascinated by your unique works of art sooner.

Chamber kilns NE 70 with base as additional equipment Chamber kiln NE 40 as a tabletop model

#### Standard equipment

- Heating elements protected in grooves
- Heating from both sides
- Designed as a tabletop model, base available as an accessory

Order-no.	Model	Innerdimens. mm			Volume L	Outerdimens. mm			Weight kg	Power kW	Voltage	Power consump.	Conneting Plug
		w	d	h		W	D	H*					
<b>Chamber kilns up to 1300°C (heated from 2 sides)</b>													
90370	NE 40	350	330	350	40	640	800	600	96	2,9	230 V 1/N	12,6 A	Schuko
90372	NE 40 /R	350	330	350	40	640	800	600	95	5,5	400 V 3/N	13,8 A	CEE 16 A
90375	NE 70	400	380	450	70	690	850	700	120	3,6	230 V 1/N	15,7 A	Schuko
90377	NE 70 /R	400	380	450	70	690	850	700	120	5,5	400 V 3/N	13,8 A	CEE 16 A
90380	NE 100	460	440	500	100	750	910	750	150	7,0	400 V 3/N	10,1 A	CEE 16 A
<b>additional charge base for N 40 E - N 100 E</b>													
<b>Chamber kilns up to 1300°C (heated from 3 sides) incl. base</b>													
90390	NE 140 <sup>1)</sup>	450 <sup>2)</sup>	580	570 <sup>3)</sup>	140	720	1130	1440	280	9,0	400 V 3/N	13,0 A	CEE 16 A
90395	NE 210 <sup>1)</sup>	500 <sup>2)</sup>	580	700 <sup>3)</sup>	210	770	1130	1570	320	11,0	400 V 3/N	15,9 A	CEE 16 A
90400	NE 280 <sup>1)</sup>	520 <sup>2)</sup>	580	890 <sup>3)</sup>	280	790	1130	1760	400	15,0	400 V 3/N	21,7 A	CEE 32 A

\* Base included.

<sup>1)</sup> These kilns are ideal for operating temperatures of approx. 900 - 1300°C. For permanently high firing temperatures above 1230°C, we recommend Model N 100 - N 660/H (page 81).

<sup>2)</sup> Collar width reduced by 50 mm  
<sup>3)</sup> Collar height reduced by 110 mm



For prices, scan the QR code and enter the order-no.

## Chamber Kilns up to 1300 °C heated from five sides

Welcome to the world of professional firing. With their high-quality workmanship, attractive design, long service life and excellent temperature uniformity, our kilns in the N range set new standards. Our chamber kilns from 100 to 660 liters, heated from five sides, have a maximum firing temperature of 1300 °C and are the creative companion for arts and crafts professionals. These chamber kilns have proven their worth for many years, firing stoneware, porcelain and glass, even when tightly stacked and at high working temperatures. No matter whether you are working in your ceramic workshop, a studio, a hospital, a school or in the private sphere – our chamber kilns will meet your needs. They are a reliable partner even if you pack your kiln tightly and fire it frequently, guaranteeing excellent temperature uniformity.

### Standard equipment

- Heating elements on support tubes ensure free heat radiation
- Heating from five sides and a special arrangement of the heating elements ensure excellent temperature uniformity
- SiC shelves to protect the floor heating and provide a level setting surface
- Frame
- Door cover made from structured stainless steel
- Semi-motorized air inlet flap that closes automatically after the drying phase in the heating program for chamber kilns up to 300 liters
- Motor-driven exhaust air flap in the middle of the kiln roof for optimum ventilation of the kiln chamber for chamber kilns from 440 liters

### Controller

- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 83

*Our chamber kilns are more than just kilns – they represent inspiration and passion for your unique projects!*



N 200

## Arts & Crafts Nabertherm



N 440

## Chamber kilns up to 1340 °C heated from five sides

Our chamber kilns in the N .. H range have a maximum firing temperature of 1340 °C. The kilns combine the product benefits of the N range but the insulation and heating elements are designed especially for firing at higher temperatures. They are especially robust and are the ideal partner for professional ceramists. This kiln range is particularly durable and is guaranteed to serve you reliably and safely for many years. The excellent temperature uniformity is achieved with five side heating elements on support tubes.

### Standard equipment

- Like Chamber kilns heated on five sides (see left column)

### Controller

- As in the left column

*The attractive design makes a professional chamber kiln an eye-catcher in your workshop!*

Order-no.	Modell	Innerdimens. mm			Volume L	Outerdimens. mm			Weight kg	Power kW	Voltage	Power consump.	Conneting Plug
		w	d	h		W	D	H					
<b>Chamber kilns up to 1300°C (heated from 2 sides)</b>													
19680	N 100	400	530	460	100	710	1130	1440	280	9,0	400 V 3/N	13,0 A	CEE 16 A
19610	N 150	450	530	590	150	760	1130	1570	320	11,0	400 V 3/N	15,9 A	CEE 16 A
19730	N 200	470	530	780	200	790	1130	1760	380	15,0	400 V 3/N	21,7 A	CEE 32 A
90430	N 300	550	700	780	300	870	1300	1760	450	20,0	400 V 3/N	28,9 A	CEE 32 A
90435	N 440	600	750	1000	450	1000	1400	1830	820	30,0	400 V 3/N	43,4 A	termination
90440	N 660	600	1100	1000	660	1000	1750	1830	950	40,0	400 V 3/N	57,7 A	termination
<b>Chamber kilns up to 1340°C (heated from 2 sides)</b>													
90450	N 100/H	400	530	460	100	760	1150	1440	325	11,0	400 V 3/N	15,9 A	CEE 16 A
90453	N 150/H	430	530	620	150	790	1150	1600	380	15,0	400 V 3/N	21,7 A	CEE 32 A
90457	N 200/H	500	530	720	200	860	1150	1700	430	20,0	400 V 3/N	28,9 A	CEE 32 A
90460	N 300/H	550	700	780	300	910	1320	1760	550	27,0	400 V 3/N	39,0 A	termination
90463	N 440/H	600	750	1000	450	1000	1400	1830	880	40,0	400 V 3/N	57,7 A	termination
90465	N 660/H	600	1100	1000	660	1000	1750	1830	1080	52,0	400 V 3/N	75,1 A	termination

\* Height including base without socket-connection for the Bypass.



## Arts & Crafts

Nabertherm



up to NW 300 / 300 H  
with pull-out drawer



from NW 440 / 440 H  
with pull-out trolley

### Drawer and shuttle kilns up to 1300 °C heated from five sides

Immerse yourself in the fascinating world of our chamber kilns in the NW range – a combination of tried and tested quality and innovative technology. With these kilns, you not only fire to 1300 °C, you create art. Do you prefer to load your kiln conveniently and ergonomically? In this case, the NW product line is the ideal choice for your ceramics. With an easy-to-use drawer mechanism in the models up to 300 liters, the floor can be easily pulled out of the kiln. This considerably simplifies loading from three sides outside the kiln and helps protect your back and prevent back pain. The models from 440 liters have a bogie that can be loaded effortlessly outside the kiln. Developed for ceramic workshops, studios, hospitals and schools, this product line is recommended as a trusted companion for everyday use. Most of our chamber kilns are available immediately and larger models can usually be delivered within a short time.

#### Standard equipment

- Like chamber kilns, heated from five sides, see page 81
- Ergonomic, effortless loading from three sides

#### Controller

- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 83

### Drawer and shuttle kilns up to 1340 °C heated from five sides

You like to load your kiln effortlessly and ergonomically and fire frequently to just above 1300 °C? In this case, we recommend our chamber kilns with a drawer or removable bogie up to 1340 °C.

These kilns have all the product benefits of the NW product line as well as more robust insulation and stronger heating elements that are designed for firing at higher temperatures. The high electrical rating also allows the kilns to heat up much faster. This combination of technical properties gives the kiln range the power to fire your works of art to 1340 °C.

#### Standard equipment

- Like chamber kilns, heated from five sides, see page 81
- Ergonomic, effortless loading from three sides
- Controller with touch operation AC590 incl. cone firing assistant, controls description see page 83

*Discover how effortless and inspiring ring can be welcome to your personal creative oasis!*

*You can look forward to a reliable and safe ring experience!*

Order-no.	Model	Innerdimens. mm			Volume L	Outerdimens. mm			Weight kg	Power kW	Voltage	Power consump.	Conneting Plug
		w	d	h		W	D	H*					

#### Kammeröfen mit Schubladenauszug bis 1300°C (5-seitig beheizt)

90470	<b>NW 150</b>	430	530	620	150	790	1150	1600	420	11,0	400 V 3/N	15,9 A	CEE 16A
90472	<b>NW 200</b>	500	530	720	200	860	1150	1700	490	15,0	400 V 3/N	21,7 A	CEE 32A
90474	<b>NW 300</b>	550	700	780	300	930	1320	1760	590	20,0	400 V 3/N	28,9 A	CEE 32A
90476	<b>NW 440</b>	600	750	1000	450	1000	1400	1830	850	30,0	400 V 3/N	43,5 A	termination
90478	<b>NW 660</b>	600	1100	1000	660	1000	1750	1830	1180	40,0	400 V 3/N	58,0 A	termination

#### Kammeröfen mit Schubladenauszug bis 1340°C (5-seitig beheizt)

90480	<b>NW 150/H</b>	430	530	620	150	810	1150	1600	520	15,0	400 V 3/N	21,7 A	CEE 32A
90482	<b>NW 200/H</b>	500	530	720	200	880	1150	1700	590	20,0	400 V 3/N	28,9 A	CEE 32A
90484	<b>NW 300/H</b>	550	700	780	300	930	1320	1760	670	27,0	400 V 3/N	39,1 A	termination
90486	<b>NW 440/H</b>	600	750	1000	450	1070	1410	1830	940	40,0	400 V 3/N	58,0 A	termination
90488	<b>NW 660/H</b>	600	1100	1000	660	1070	1750	1830	1310	57,0	400 V 3/N	82,5 A	termination



For prices, scan the QR code and enter the order-no.

The controller series 500 impresses with its unique scope of performance and intuitive operation. In combination with the free "MyNabertherm" smartphone app, monitoring your furnace is even easier and more powerful than ever before. The operation and programming takes place via a high-contrast, large touch panel, which shows exactly the information that is relevant at the moment.

## Standard equipment

- Transparent, graphical display of temperature curves
- Clear presentation of firing data
- 24 operating languages selectable
- Consistent, attractive design
- Easily understandable symbols for many functions
- Precise and accurate temperature control
- User levels
- Program status display with estimated end time and date
- Cone firing assistant „Conny“ for easy start of your program
- Up to 50 programs with each 40 segments
- Documentation of firing curves on USB storage medium in .csv file format
- Service information can be read out via a USB stick
- Clear presentation
- Plain text display
- Can be configured for all furnace families
- Can be parameterized for different firings
- "Solar Mode" to utilize electricity from photovoltaic systems with and without a battery
- Delayed start possible



## Functions of standard controller AC590

Number of programs	50
Segments	40
Extra functions (e.g. fan or automatic flaps) max.	6
Maximum number of control zones	1
Drive of manual zone control	•
Self-optimization	•
Real-time clock	•
Graphic color display	•
Graphical display of temperature curves (program sequence)	•
Status messages in clear text	•
Data entry via touchpanel	•
Entering program names (e.g. "glaze firing")	•
Keypad lock	•
User levels	•
Skip-button for segment jump	•
Program entry in steps of 1 °C or 1 min.	•
Start time configurable (e.g. to use night power rates)	•
Switch-over °C/°F	•
kWh meter	•
Operating hour counter	•
Set point output	•
NTLog Basic for Nabertherm Controller:	
Recording of firing data with a USB flash drive	•
Malfunction memory	•
Number of selectable languages	24
Wi-Fi-capability ("MyNabertherm" app)	•
Solar mode	•

- Standard



## Installation service

On request, all kilns in Germany can be delivered free to the place of use, including kiln installation and controller instruction. The quoted price depends on the kiln type and the respective conditions on site.

*Please contact us!*



**PYROTEC****Advantages** of all Pyrotec kilns:

- temperature measurement with thermo couple Type S PtRh-Pt
- quality lightweight refractory brick lining
- rear insulation SUPERWOOL
- powder coated base
- stainless steel case
- heating elements are ambedded in grooves
- control via plug connected to furnace
- lid opening more than 90°
- kiln can be locked
- lid safety switch which automatically shuts down power
- protected against over-heating via 2nd relay

Because of their great reliability and their excellent price-performance-relation Pyrotec kilns have been successfully used for more than 20 years in shops, schools and for hobby-purposes. The solid quality of Pyrotec kilns guarantees best burning results maintenance-free for years. The heating-spirals with little surface-stress are embedded in refractory bricks and take care of an even distribution of the temperature within the kiln. Of course, all models are manufactured according to the latest safety-standards (CE-sign). Very light and high-quality isolation material in the rust-free high-grade steel container allow low electric connection dates and guarantee a low power-demand. All models can be used with the controller described on page 84.

**Further types of kilns on request.**

The factory **warranty** for all models is **3 years** (excluding heating-spirals and thermo-elements).

**Model series STUDIO**

These models are mainly used for the stoneware area (glaze-burning up to 1150°C).

An easier isolation fitted to the usage allows an even better price-performance-relation.

Regarding the safety and reliability these kilns do not leave anything wished for.

Order-no.	Model	Max. temp. °C	Volume L	Innerdimens. (mm)		Outerdimens. (mm)			Weight kg	Power kW	Voltage	Safety amp./ switch	
				Ø	h	W	D	H					
19550	<b>ST 52 H</b>	1200	52	430	340	590	740	760	45	3,6	230 V	16	Schuko
19580	<b>ST 52 HD</b>	1260	52	430	340	590	740	760	45	4,5	400 V /2N	2 x16	CEE16
19390	<b>ST 68 H</b>	1100	70	430	460	590	740	870	55	3,6	230 V	16	Schuko
19560	<b>ST 68 HD</b>	1260	70	430	460	590	740	870	55	5,7	400 V /3N	3 x16	CEE16
19565	<b>ST 85 HD</b>	1260	85	480	460	640	780	870	65	5,7	400 V /3N	3 x16	CEE 16
90050	<b>ST 103 HD</b>	1260	105	480	570	640	780	980	75	7,2	400 V /3N	3 x16	CEE 16



For prices, scan the QR code and enter the order-no.

## Model series PROFITHERM

With this series we turn to the professionals: pottery, schools and other public institutions which expect a robust, easy-to-use kiln. The solid lid suspension allows with their gas struts an easy opening of the lid, a stable handrail makes the loading of the furnace easier and at the same time it protects the furnace wall.



PY 12 H  
tabletop model



PY 30 H - 60 HD



PY 56 H - 236 HD

Order-no.	Model	Temp. max °C	Volume L	Innerdimens. mm			Outerdimens mm			Weight kg	Power kW	Voltage	Safety amp./ switch
				w	d Ø	h	W	D	H				
19420	<b>PY 12 H</b>	1300	12	230	230	230	380	540	560	25	2,4	230 V	16 Schuko
19320	<b>PY 30 H</b>	1320	30	400	230		570	730	650	35	3,6	230 V	16 Schuko
19330	<b>PY 45 H</b>	1300	45	400	340		570	730	760	45	3,6	230 V	16 Schuko
19335	<b>PY 45 HD</b>	1320	45	400	340		570	730	760	45	4,5	400 V /2N	2x16 CEE 16
19500	<b>PY 56 H</b>	1200	57	460	340		640	780	760	55	3,6	230 V	16 Schuko
19570	<b>PY 56 HD</b>	1320	57	460	340		640	780	760	55	4,5	400 V /2N	2x16 CEE 16
19340	<b>PY 60 H</b>	1200	62	400	460		590	740	870	55	3,6	230 V	16 Schuko
19350	<b>PY 60 HD</b>	1320	62	400	460		590	740	870	55	5,7	400 V /3N	3x16 CEE 16
19430	<b>PY 75 H</b>	1200	75	460	460		640	780	870	65	3,6	230 V	16 Schuko
19440	<b>PY 75 HD</b>	1320	75	460	460		640	780	870	65	5,7	400 V /3N	3x16 CEE 16
19460	<b>PY 95 HD</b>	1320	95	460	570		640	780	980	75	7,2	400 V /3N	3x16 CEE 16
19470	<b>PY 110 HD</b>	1320	110	500	570		680	820	980	85	7,2	400 V /3N	3x16 CEE 16
19480	<b>PY 135 HD</b>	1320	135	550	570		720	870	980	95	9,6	400 V /3N	3x20 CEE 32
19490	<b>PY 163 HD</b>	1320	163	550	690		720	870	1050	100	10,5	400 V /3N	3x20 CEE 32
90120	<b>PY 195 HD</b>	1320	195	600	690		780	910	1050	115	13,3	400 V /3N	3x25 CEE 32



Order-no.	Model	Max temp °C	Volume L	Innerdimens. mm w dØ h	Outerdimens. mm W D H	Weight kg	Power kW	Voltage	Safety amp./ Switch
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## With swing lid

The solid lid mounting and the comfortable rail are designed not only for professional use. A sturdy stand, powder coated, makes loading safe and comfortable.

90140	<b>PY 80 HS</b>	1320	75	460 460	750 770 840	65	5,7	400 V /3N	3x16 CEE 16
19345	<b>PY 100 HS</b>	1320	95	460 570	750 870 950	75	7,2	400 V /3N	3x16 CEE 16
90142	<b>PY 115 HS</b>	1320	110	500 570	780 890 950	85	7,2	400 V /3N	3x16 CEE 16
90146	<b>PY 140 HS</b>	1320	135	550 570	820 940 940	95	9,6	400 V /3N	3x20 CEE 32
19400	<b>PY 170 HS</b>	1320	170	660 500	930 1080 950	100	9,6	400 V /3N	3x20 CEE 32
19410	<b>PY 210 HS</b>	1320	210	660 620	930 1080 1080	120	11,0	400 V /3N	3x20 CEE 32
19450	<b>PY 255 HS</b>	1320	255	660 750	930 1080 1190	135	13,3	400 V /3N	3x25 CEE 32
90170	<b>PY 290 HS</b>	1320	290	730 690	1010 1120 1130	160	15,6	400 V /3N	3x25 CEE 32

## OVAL Toploader

are designed for use in workshops where a rugged, reliable and easy-to-use kiln is expected. The solid cover tabs allow easy opening of the lid, a stable handrail (only for PY 450 HS) makes the loading of the furnace easier and at the same time it protects the furnace wall.

90150	<b>PY 138 HS</b>	1320	142	730 510 460	1000 900 890	97	9,6	400 V /3N	3x20 CEE 32
90155	<b>PY 172 HS</b>	1320	172	730 510 570	1000 900 1000	115	9,6	400 V /3N	3x20 CEE 32

The **PY 1** microprocessor controller features the latest technology in terms of firing safety and accuracy. Due to the easy operation and the possibility to lock the keys, this control unit is especially recommended for the hobby and school sector.

Surplus charge:

PY 1

TC 75 Wifi

TC 95 USB + Wifi

**Description, see on page 90.**

**Further controller on request**



Range of control  
LED display (in steps of)  
Display of the segments  
Display of the firing curve  
Error messages  
Safety bolt  
Over-heating security  
Programs  
power failure protection

0-1320°C  
1°C (4-digits)  
✓  
✓  
✓  
✓  
✓  
5 free



For prices, scan the QR code and enter the order-no.

## CB STUDIO-LINE

- Kilns ready to be connected with cable and plug
- Easy to handle control with over-heating protection
- Detailed manual
- Thermo-elements for temperature measurement are safely embedded
- Lid and body mortar-free, thus no contamination and no cracking
- High-quality microtherm-insulation for all CB Plus; two-zone insulation without ceramic fibres for all other models
- Optional: air-supply control handle on the floor  
+ air-hole in the floor  
+ drip pan
- **Frame colour: anthracite.** If demanded it can also be delivered in green, orange, red or silver
- **Factory warranty: 3 years** (excluding heating and thermo elements)



**CB 130 S Plus**

**CB 50**  
(turnable frame high)

The kilns of the KITTEC CB Studio Line are manufactured only in small numbers and offer a very good price-performance relation. This series is the re-design of the very successful CB series with which KITTEC started the toploader series as the first one in Europe in 1979.

The kilns leave the factory carefully calculated, mounted and checked – the auditor signs this in the final control with his seal.

**Further kilns (also frontloader kilns) on request.**

Order-no.	Model	Temp. max.°C	Innerdimens. mm Ø	h	Volume L	Outerdimens. mm W	D	H	Weight kg	Power kW	Voltage	Power A	Plug	
19205	<b>CB 40</b>	1320	400	305	38	650	730	620	65	3,6	230 V 1/N	16	Schuko	
19206	<b>CB 50</b>	1280	400	380	47	650	730	700	70	3,6	230 V 1/N	16	Schuko	
19207	<b>CB 50 Plus</b>	1320	400	380	47	650	730	740	75	3,6	230 V 1/N	16	Schuko	
19208	<b>CB 50 S</b>	1320	400	380	47	650	730	700	70	4,7	400 V 2/N	2x12	CEE 16	
19213	<b>CB 60</b>	1230	400	460	57	650	730	780	75	3,6	230 V 1/N	16	Schuko	
19215	<b>CB 60 Plus</b>	1280	400	460	57	650	730	820	80	3,6	230 V 1/N	16	Schuko	
19210	<b>CB 66</b>	1200	400	535	66	650	730	850	85	3,6	230 V 1/N	16	Schuko	
19211	<b>CB 66 Plus</b>	1250	400	535	66	650	730	890	85	3,6	230 V 1/N	16	Schuko	
19270	<b>CB 66 S</b>	1320	400	535	66	650	730	850	85	5,3	400 V 2/N	2x13	CEE 16	
19251	<b>CB 70 Plus</b>	1230	430	460	68	690	770	820	90	3,6	230 V 1/N	16	Schuko	
19250	<b>CB 70 S</b>	1320	430	460	68	690	770	780	80	5,6	400 V 2/N	2x12	CEE 16	
19252	Intermediate ring to extend the model CB 70 S									21	3,0	400 V 1/N	1x12	CEE 16
19220	<b>CB 100 S</b>	1320	430	690	102	690	770	1010	100	8,6	400 V 3/N	3x13	CEE 16	
19202	<b>CB 80 Plus</b>	1200	510	380	79	770	850	740	100	3,6	230 V 1/N	16	Schuko	
19200	<b>CB 80 S</b>	1320	510	380	79	770	850	700	90	5,6	400 V 2/N	2x13	CEE 16	
19203	Intermediate ring to extend the model CB 80 S									24	3,4	400 V 1/N	1x12	CEE 16
19217	<b>CB 95 S</b>	1320	510	460	95	770	850	780	95	7,0	400 V 2/N	2x16	CEE 16	
19960	<b>CB 120 S</b>	1320	510	610	127	770	850	930	115	9,0	400 V 3/N	3x15	CEE 16	
19230	<b>CB 130 S Plus</b>	1320	590	460	127	850	930	820	120	7,2	400 V 2/N	2x16	CEE 16	
19231	Intermediate ring to extend the model CB 130 S									26	3,8	400 V 1/N	1x16	CEE 16
19240	<b>CB 190 S Plus</b>	1320	590	690	190	850	930	1050	146	11,0	400 V 3/N	3x16	CEE 16	



## X PROFESSIONAL-LINE

### ■ Workmanship

- All exposed steel parts are made from stainless steel
- High-quality microporous background insulation Microtherm®
- Perfectly closing swinging lid system by means of unique pendulum mounting

### ■ Firing quality

- With bypass exhaust air system and air inlet slide valve for perfect firing control

### ■ Ergonomics

- Easy to load, ergonomic working height of 97 cm
- Extremely smooth single-hand-operated lid mechanism, allows safe opening and closing of the kiln through the X-handle – decentralised in the cold area
- The optimised balance of the lid prevents unwanted accidents

- The **factory warranty** for all models is 3 years (excluding heating-spirals and thermo-elements)

### PROFESSIONAL-LINE X electric top-loader

In all 230 Volt and 400 Volt models the energy utilisation is very efficient thanks to our design.

Specially designed Kanthal heating coils, high-quality lightweight refractory bricks and the innovative multi-layer premium insulation make a maximum operating temperature of 1,320 °C possible depending on the model. Because of the round design, the heat-emitting kiln surface is minimised. While all of the bright components reflect the heat, the heat is led away in a targeted way

via the dark rear wall. The controllable supply air duct in the base is used to improve the atmosphere in the kiln. The advantage of the 400 Volt 3-phase current models is that the overall firing time can be reduced thanks to shorter heat-up phases.

Optionally available with an additional heating in the lid! The circuit of this lid heater is not only a selector switch for „lid heating off“ or „side heating on“, but a stepless switch with which you can set the ratio of lid to side heating in percent yourself. It doesn't get any more convenient than this when it comes to firing both ceramics and glass alternately, for example - **the ideal combination kiln!** We would be happy to submit an offer for this!



Order-no.	Model	Max temp.°C	Innerdimens. mm Ø h	Volume L	Outerdimens. mm W D H	Weight kg	Power kW	Voltage	Power A	Plug
90610	<b>X 45</b>	1320	430 325	48	710 790 1050	85	3,6	230 V 1/N 16		Schuko
90612	<b>X 45 S</b>	1320	430 325	48	710 790 1050	85	4,4	400 V 2/N 2x10		CEE16
90614	<b>X 55</b>	1280	430 400	59	710 790 1050	85	3,6	230 V 1/N 16		Schuko
90616	<b>X 55 S</b>	1320	430 400	59	710 790 1050	85	4,4	400 V 2/N 2x10		CEE16
90618	<b>X 65 S</b>	1320	430 480	71	710 790 1050	95	5,6	400 V 2/N 2x12		CEE16
90620	<b>X 75 S</b>	1320	430 555	82	710 790 1050	100	5,6	400 V 2/N 2x12		CEE16
90622	<b>X 100 S</b>	1320	510 480	99	780 870 1050	105	6,8	400 V 3/N 3x10		CEE16
90624	<b>X 135 S</b>	1320	590 480	132	860 950 1050	120	8,2	400 V 3/N 3x12		CEE16
90626	<b>X 170 S</b>	1320	590 630	174	860 950 1050	130	11,0	400 V 3/N 3x16		CEE16
90628	<b>X 195 S</b>	1320	590 710	196	860 950 1050	145	11,0	400 V 3/N 3x16		CEE16
90630	<b>X 215 S</b>	1320	590 780	215	860 950 1050	155	11,0	400 V 3/N 3x16		CEE16
90632	<b>X 240 S</b>	1320	690 645	243	980 1090 1050	165	14,0	400 V 3/N 3x20		CEE32
90634	<b>X 270 S</b>	1320	690 710	268	980 1090 1050	170	15,0	400 V 3/N 3x22		CEE32

\*incl. railing

\*\*with closed lid



For prices, scan the QR code and enter the order-no.

## XT PROFESSIONAL-LINE



- Housing and frame completely made from stainless steel
- Pairs of legs with adjustable height (not with XT 1000)
- Stable SiC ceiling plate – no contamination from above
- Tested safety door switch - forcibly-disconnecting
- Easy to use controller with overtemperature-protection
- Controllable supply air bottom side incl. catch basin container
- Bypass exhaust air system on the side, therefore condensation waterproof
- Optimum heat distribution thanks to 5-sided heating
- SiC bottom cover for the heating elements with a maximum of thermal conductivity
- GS tested, CE certified as well as test seal for quality assurance

The KITTEC XT model series provides heating for the kiln on support bars. This has the advantage of allowing free radiation of the heating elements.

The XT front-loaders are heated with heating elements on silimantin support bars. The high-quality and complex processing with the support bars is the guarantee of a very long service life. Of course, the 5-sided all-round heating with optimum temperature distribution also provides consistently uniform firing results in these kilns. Best results in harsh everyday use in handicraft and industry are guaranteed over the long term. Not only are the side walls made from stainless steel, but also the



entire kiln housing, including the frame! Additional rear ventilation optimises the best insulation characteristics. The individually adjustable leg pairs are unique. You can choose how high you would like the loading edge of your kiln to be.

The factory **warranty** for all models is **3 years** (excluding heating-spirals and thermo-elements).

Order-no.	Model	Temp. max.°C	Innerdimens. mm			Volume L	Outerdimens. mm			Weight kg	Power kW	Power	Voltage A	Plug
			w	d	h		W	D	H*					
90650	XT 80	1320	380	440	480	80	720	940	1420-1780	215	8	400 V 3/N	3x12	CEE16
90652	XT 120	1320	400	500	600	120	740	1000	1420-1660	270	9	400 V 3/N	3x13	CEE16
90654	XT 160	1320	450	520	660	154	790	1020	1480-1720	305	11	400 V 3/N	3x16	CEE16
90656	XT 200	1320	450	660	660	196	790	1160	1480-1720	345	14	400 V 3/N	3x20	CEE32
90658	XT 270	1320	520	660	780	267	860	1160	1600-1840	400	18	400 V 3/N	3x26	CEE32
90660	XT 330	1320	580	720	780	325	920	1220	1600-1840	450	22	400 V 3/N	3x32	CEE32
90662	XT 450	1320	630	750	960	453	970	1250	1660-1780	510	33	400 V 3/N	3x48	CEE63
90662	XT 600	1320	700	900	960	605	1040	1400	1660-1780	610	42	400 V 3/N	3x61	CEE63
90666	XT 700	1320	700	980	1020	700	1040	1480	1720-1840	660	50	400 V 3/N	3x73	termination
90668	XT 1000	1320	900	1000	1140	1026	1240	1500	1860	860	65	400 V 3N	3x95	termination

\*Height variably adjustable



The controllers control the heating process in the kiln safely and exact. The controllers described below are delivered **as standard with plugs according to the Kittec and Pyrotec norms.**

Other plugs or pin configurations on request. The kilns have to be equipped with a **thermo-element PtRH-Pt, Type S.** The controllers are userfriendly and have the CE-sign.

Price for **mating-socket** and **further controllers** on request.



**TC 75**  
90712



**TC 95**  
90732



**TC 66**  
90720



**TC 88**  
90730

Order-no.

Range of control

(depending on the thermocouple)

LED Display (in steps of)

Display of the segments

Display fire section

Error messages

Power consumption display

Overtemperature safety

Wifi

USB

Programs

Segments per Program

Lead time

0 - 1320°C

Complex LED

✓

✓

✓

✓

-

✓

-

6

4

0 - 10 h

0 - 1320°C

2,8 TFT

✓

✓

✓

✓

✓

✓

20

20

0-24 h

0 - 1320°C

1°C

✓

✓

✓

-

✓

-

6 frei

2

0-10 h

0 - 1320°C

1°C

-

✓

✓

-

✓

-

19 frei

190 gesamt

0-10 h

## Slim Elegance – The new Compact Series TC75 and TC95

The TC75 for ceramic applications and TC95 for fully flexible temperature profiles comes with an elegance not known yet in this class of kiln controllers. Featuring an intuitive human interface the controllers are highly simple operate. Both are SuperWise App ready - have them on your smartphone or tablet right after registration. No further hardware is needed, log them into your Wifi and you have access from everywhere.

### COMPACT CONTROLLER TC75

Compact temperature controller for wall mounting matching all kinds of kilns and processes. Simultaneous reading of important process values, easy operation through intuitive, modern GUI.

- High-contrast LED display
- 6 programs with 4 segments each
- SuperWise App ready

### COMPACT CONTROLLER TC95

TC95 provides all functionality of TC75 but on top an innovative graphic interface. For the first time and only from bentrup in this device class.

- High resolution 2.8" display
- 20 programs and 20 segments
- Temperature reading changes color for immediate recognition of deviation

Take advantage of the **bentrupSuperWise app** and connect your TC75 or TC95 to your smartphone, tablet, or PC.

SuperWise key features:

- Track the burning process via your smartphone, tablet, or PC
- Receive alerts/notifications
- Intervene in the firing process (start/pause/stop)
- Request a remote diagnosis (bentrup KilnAssist)

**TC 66** is a modern compact controller for ceramics. All values of the typical ceramics firing curve (lead time, linear heat in two stages to the final temperature, holding, controlled cooling) are adjustable. Six programs can be customized to your needs; these are retained even after power off. High ease of use and reliability at an unbeatable price-performance ratio.

**TC 88** Compact programme controller for applications requiring a fully flexible temperature curve (e.g. glass fusing). Multiple heating, dwelling and cooling segments. Default setting of 19 programmes with up to 10 segments (ramp > heating or cooling + hold time). Direct control features during the process.



For prices, scan the QR code and enter the order-no.

# Temperature control in the kiln | 91

Order-no.	Cone	No.	Temp.*
24300	large	019	693°C
24310	large	018	732°C
24320	large	017	761°C
24330	large	016	794°C
24340	large	015	816°C
24350	large	014	836°C
24360	large	013	859°C
24370	large	012	880°C
24380	large	011	892°C
24400	large	09	928°C
24410	large	08	954°C
24420	large	07	985°C
24450	large	05	1046°C
24460	large	04	1070°C
24470	large	03	1101°C
24510	large	2	1162°C
24530	large	4	1181°C
24580	large	8	1269°C
24590	large	9	1278°C
24610	large	11	1312°C
24620	large	12	1326°C
24630	large	13	1346°C
24640	large	14	1366°C

## Orton large

(height approx. 63 mm)

amount per type  
50 pcs. (original box)  
less than 50 pcs. (partial-pallet)



## Orton small

(height approx. 30 mm)

amount per type  
50 pcs. (original box)  
less than 50 pcs. (partial-pallet)



Orton large

Orton small

For example for kilns with kiln-sitter

\* Average time of falling down when the heat is increased by 150°C/h. Tests in our laboratories have proven that the falling-down points of Orton-Normalkegel are 20-35°C lower (with a holding time of 30 mins).

Order-no.	Cone	No.	Temp.
25780	small	020	666°C
25790	small	019	723°C
25800	small	018	752°C
25810	small	017	784°C
25820	small	016	825°C
25830	small	015	843°C
25840	small	013	880°C
25850	small	012	900°C
25860	small	010	919°C
25880	small	08	983°C
25890	small	07	1008°C
25910	small	05,5	1043°C
25770	small	05	1062°C
25920	small	03	1131°C
25930	small	02	1148°C
25940	small	01	1178°C
25950	small	1	1184°C
25960	small	5	1221°C
25970	small	6	1255°C
25980	small	7	1264°C
25490	small	8	1300°C

## PTCR rings (Process Temperature Control Rings)

are ceramic rings which allow a precise determination of the internal temperature after the firing. They are placed directly on the oven plate and shrink in proportion to the heat (this also changes the colour of the ring). A single ring is enough for temperature control once the temperature control has been tested.

Dimensions of the rings (approx) 20 mm diameter, 7 mm high-  
**Packung á 15 Stück.**

Order-no.	Typ	Colour	temperature range
25014	ATH	grauweiß	600 - 850°C
25015	UTH	gelb	660 - 900°C
25017	ETH	hellgrün	850 - 1100°C
25018	LTH	pink	970 - 1250°C
25019	STH	grün	1130 - 1340°C
25016	MTH	grauweiß	1340 - 1520°C



With a **digital caliper** (accuracy 0.01 mm) you can measure after the firing. Based on a chart, the respective temperature can be determined.



Order-no. 15950  
**Digital caliper**  
accuracy 0.01 mm



Order-no.      title (author)

- 32285 **250 Tipps, Tricks & Techniken** (J. Atkin)  
 29044 **Dekorative Keramik** (M. Krumbach)  
 32277 **Die Kunst des Raku** (J. Peiffer)  
 32273 **Effektiv voll modellieren** mit einfachen Techniken (G. Lantérie)  
 32240 **Engoben** (W. Matthes)  
 32290 **Erlebniswerkstatt** - Menschen-Tiere-Pflanzen (M. Krumbach)  
 29130 **Expertenwissen Töpfern** Häufige Fehler beim Töpfern erkennen und beheben (J. Atkin)  
 29110 **Faszination Töpfern** (T. Birks)  
 29048 **Funktionelle Gebrauchskeramik** - Techniken und nützliche Beispiele (J. Atkin)  
 32052 **Gestalten mit Ton** - Grundlagen & Projekte (P. Knebel)  
 29080 **Grundkurs Modellieren** (E. Bonvolat)  
 32297 **Handbuch Keramik** Die Techniken des Töpfern (Hooson/Quinn)  
 29632 **Handbuch Paperclay** Techniken - Ideen - Projekte (Tardio-Brise)  
 29046 **Keramische Oberflächen** - graphisch gestaltet und bedruckt (J.B. Burnett)  
 32274 **Körperdetails modellieren** Hände-Füße-Kopf (P. Chazot)  
 32266 **Körper perfekt modellieren** (P. & C. Faraut)  
 Band 1: Flächen und Konstruktionstechniken in Ton  
 32267 **Körper perfekt modellieren** (P. & C. Faraut)  
 Band 2: Körperhaltung und Faltenwurf in Ton  
 32250 **Kopf und Gesicht** (B. Hildre)  
 32070 **Meine Welt in Ton** (M. Kumbach)  
 29011 **Melisas Keramik Werkstatt** Geschirr & Deko im mediterranen Look auf der Scheibe töpfeln (M. Dora)  
 29143 **Natürlich Töpfern** - Archischnecktur (R. Chinow)  
 29140 **Natürlich Töpfern** Insektenhotels, Nistkästen, Futterhäuschen (E.Post)  
 29141 **Natürlich Töpfern** - Eindrückformen (E.Post)  
 29142 **Natürlich Töpfern** - Rakuritäten - R.Chinow  
 29145 **Natürlich Töpfern** - Garten-Stelen - R.Chinow  
 29144 **Natürlich Töpfern** - Rakuritati di Mare - R.Chinow  
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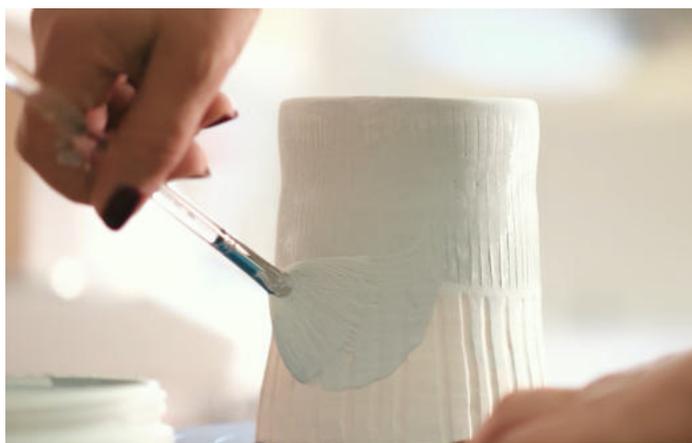
## Glaze preparation

The ratio of glaze to water depends on the glazing technique and the absorbency of the body, and varies from glaze to glaze. The glaze slip should have a **creamy consistency**.

## Brush-on glaze

1 kg Glaze → approx. 550 - 700 ml water  
approx. 200 g „Stammlösung“  
(Order-no. 14117)

The „Stammlösung“ has proven itself to be the best way to achieve an optimal brush-on glaze. It contains glaze binder, thickening agents and preservatives. The improved flow properties prevent brush marks - no additional additives are necessary!



## Dipping, pouring, spraying

1 kg Glaze → approx. 700 - 1.000 ml water  
approx. 2 g Stellmittel- Stabil  
(Order-no. 14110)  
approx. 2 g Glasurkleber CMC 300 G  
(Order-no. 14100)

By adding a suspending agent, e.g. 0.2% Stellmittel-Stabil, settling can be prevented and the glaze remains in suspension.

In addition, it is advisable to add a glaze binder (e.g. approx. 0.2% CMC 300 G). When glazing raw shards a binder must always be used.



## Influence of temperature and application thickness

As the temperature increases, the gloss usually increases as well; even matt glazes can become glossy. A very thin application results in a rather matt surface, while a thicker application intensifies colors and effects. However, a high temperature combined with a particularly heavy application can cause the glaze to run.

## Glazes with Specks – Effect Glazes

These glazes should not be sieved or ground, as this would significantly reduce the effects.

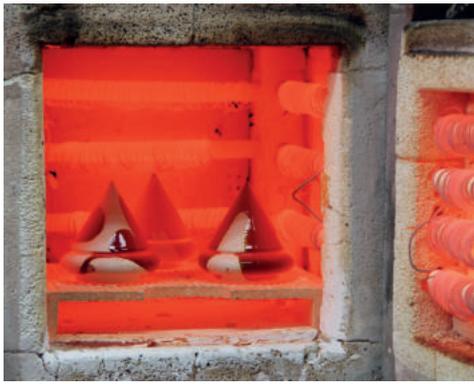


## Glazes with inclusion pigments

Glazes containing inclusion pigments must not be ground in a ball mill or drum mill, as in these color bodies the cadmium or selenium is enclosed within a zirconium silicate matrix (inclusion pigment). Grinding could break down this matrix and increase cadmium release (see page 12).

## General Guidelines:

- Avoid generating dust. Wear a dust mask.
- Do not eat, drink, or smoke while working.
- Use with children only under supervision.
- Do not store in containers that come into contact with food.
- Wash hands thoroughly after glazing.
- Do not ingest glazes or allow them to come into contact with food.
- Ensure adequate ventilation during firing.



## Our recommendation for the bisque firing:

Heat up to 600°C at 80°C/h  $\cong$  approx. 7,5 Std. heating time  
 Heat from 600–950°C at 100°C/h  $\cong$  approx. 3,5 Std. heating time  
 followed by a 30-minute hold, then allow to cool uncontrolled.

## Our recommendation for the glaze firing:

Heat up to 600°C at 120°C/h  $\cong$  approx. 5,0 hours heating time  
 Heat from 600°C to the final temperature at a heating rate\* of 140°C/h  
 followed by a 30-minute hold, then allow to cool uncontrolled.

\* Adjust the heating time according to the target temperature at a heating rate of 140°C/h.

### Note

Never heat the kiln at full load ("skip") as quickly as possible. This damages the heating elements and the kiln load.

## Instructions for use – kiln plates

To prevent glaze from sticking to kiln plates, a **batwash** (see page 72) should be applied to all plates beforehand. After application, the plates must be **thoroughly dried** before firing.

**New kiln plates** should be fired once in a bisque firing (900–950°C) without any ware (unloaded) before their first use.

In the kiln plates should be stacked on only **three support posts** (even with rectangular plates). More than three posts can create diagonal stress that may cause the shelf to crack. The kiln props should be stacked directly on top of one another in straight vertical columns.

Whenever possible, kiln plates should be transported upright, well packaged, and supported softly along their entire edge.

### Causes of Damage

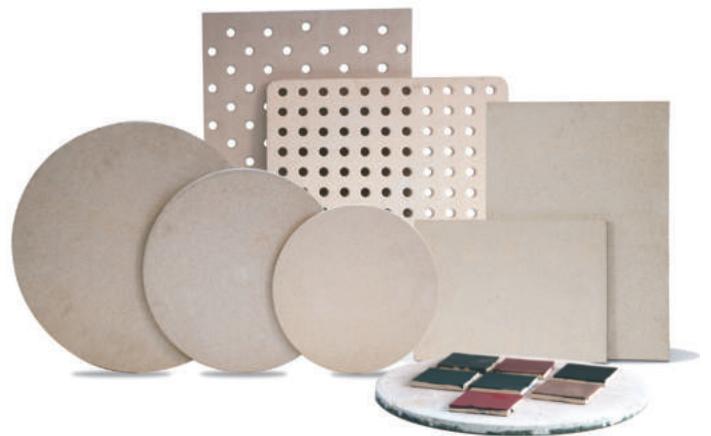
Plates breaking during one of the first firings can have many causes.

If the plates have a manufacturing defect, inclusions or warping can usually be identified at the fracture surfaces.

A common cause is transport damage or improper storage. In such cases, fine hairline cracks often form that are not visible and can only be detected by carefully tapping the plates (sound test):

- clear ringing sound: shelf intact
- dull sound: possible crack in that area

Incorrect placement of plates in the kiln is also a frequent cause of breakage.



The following mistakes may occur in particular:

- The plates are not sufficiently dried before loading
- Damp ceramic pieces are placed directly on the plate during bisque firing
- The spacing between plates is too small (minimum distance approx. 5 cm; for large plates approx. 8 cm)
- Large flat objects are placed directly on the plate
- The plates are positioned too close to the heating elements
- The kiln posts on different levels are not aligned exactly on top of one another
- The plates are supported by more than three kiln props

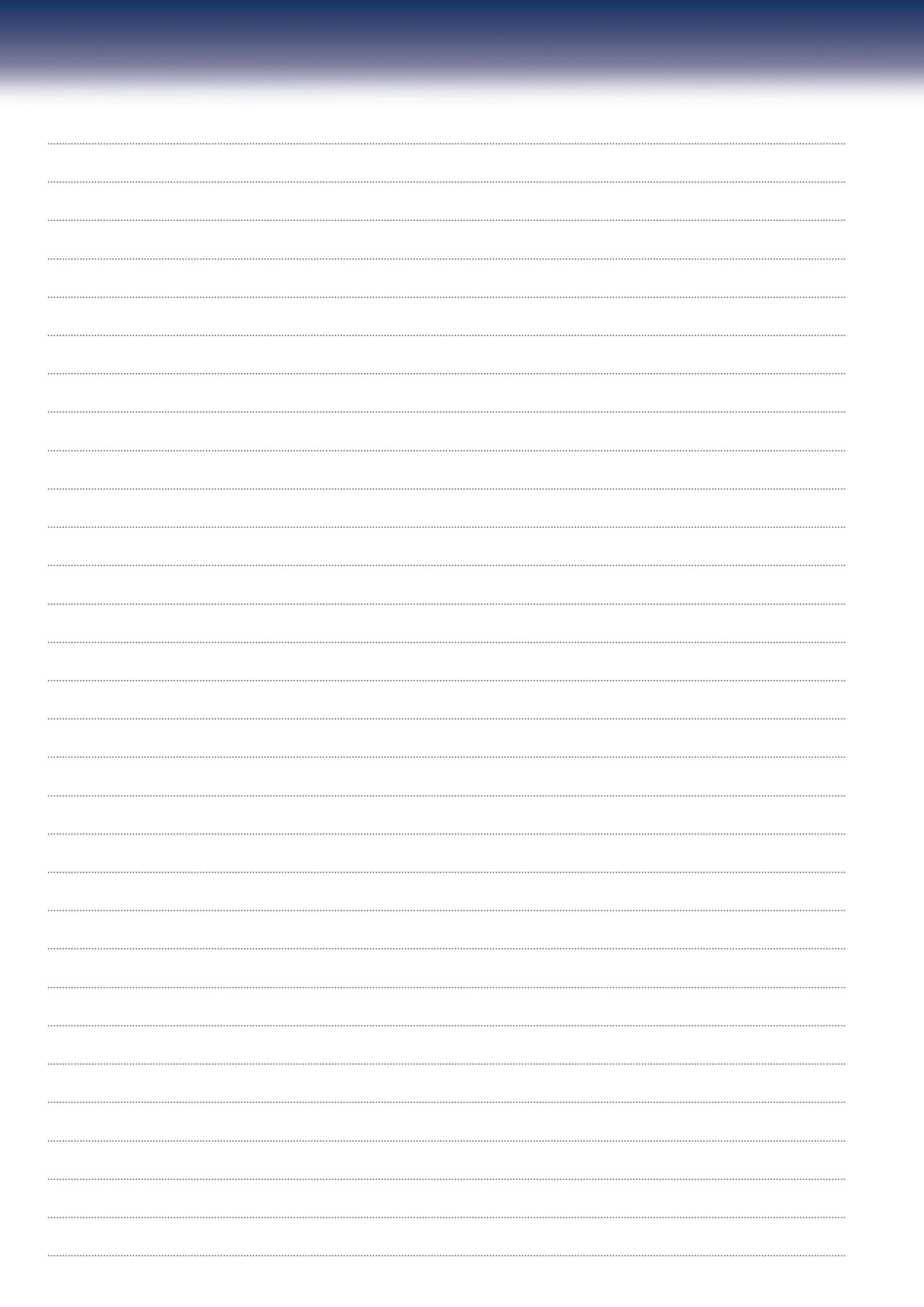
### Application of batwash

The batwash is mixed with water to a creamy consistency (mixing ratio approx. 1:1).

This mixture is applied to one side of the kiln plate with a thick brush, similar to applying engobes. Before placing the plates in the kiln they must be completely dry.

The batwash ensures that glaze drips do not stick to the plate and can instead be removed together with the batwash layer.





## 1. Allgemeines

Durch Auftragserteilung werden unsere nachstehenden Lieferungs- und Zahlungsbedingungen, falls nicht anders vereinbart, Vertragsbestandteil und schließen Einkaufsbedingungen der Abnehmer aus.

Bei Verträgen mit **Unternehmen**, im Sinne des seit 01.01.2002 geltenden Schuldrechtes, müssen Änderungen dieser Bedingungen schriftlich vereinbart werden. Bei Verträgen mit **Verbrauchern**, im Sinne des seit 01.01.2002 geltenden Schuldrechtes, gelten die nachstehenden Bedingungen nicht, soweit sie den im neuen Schuldrecht zwingend vorgeschriebenen Bestimmungen widersprechen.

## 2. Angebot und Preise

Unsere Angebote sind freibleibend. Unsere Preislisten stehen unter dem Vorbehalt der Änderbarkeit. Proben und Muster gelten als Durchschnittsausfall. Abbildungen, Analysen, Angaben über Maße und Gewichte, Frachten usw. sind unverbindlich. Die Kosten für die Versandverpackung gehen zu Lasten des Käufers. Die Preise sind Nettopreise, d.h. die gesetzliche Mehrwertsteuer wird zusätzlich in Rechnung gestellt.

## 3. Lieferung und Lieferzeit

Der Versand geschieht auch bei frachtfreier Lieferung auf Gefahr des Käufers. Mangels Versandvorschriften wählen wir nach bestem Ermessen die günstigste Versandart. Die Lieferzeit beginnt nach Klarstellung aller Einzelheiten. Unvorhergesehene Ereignisse, die außerhalb unserer Einwirkungsmöglichkeiten liegen, verlängern die Lieferzeit angemessen. Entschädigungsansprüche können hieraus nicht hergeleitet werden.

## 4. Mängelrügen und Gewährleistung

Der Käufer hat zu prüfen, ob die gelieferte Ware von der vertraglich vereinbarten Qualität und für den vorgesehenen Einsatzzweck geeignet ist. Wird diese Prüfung unterlassen, nicht in dem gebotenen Umfang durchgeführt oder werden erkennbare Mängel, Falschlieferungen oder Mengenabweichungen uns nicht unverzüglich, spätestens jedoch innerhalb von 14 Tagen nach Erhalt der Ware, angezeigt, so gilt die Ware als genehmigt. Nicht erkennbare Mängel gelten als genehmigt, wenn sie uns nicht unverzüglich nach ihrer Entdeckung, spätestens jedoch 6 Monate nach Auslieferung der Ware am Versandort, angezeigt werden. Beanstandungen sind schriftlich unter Angabe der Rechnungs- bzw. Lieferscheinnummer zu erheben. Beanstandete Ware darf nur mit unserem ausdrücklichen Einverständnis zurückgesandt werden.

## 5. Haftung und Schadensersatz

Ordnungsgemäß erhobene und begründete Mängelrügen werden wir durch Preisnachlass, Nachbesserung, Umtausch oder Rücknahme der Ware gegen Erstattung des Kaufpreises entsprechen. Für etwaige Mängelfolgeschäden haften wir nach folgenden Bestimmungen: Schadensersatzansprüche des Käufers wegen Lieferverzug oder Nichterfüllung sind auf den Wert der Warenmenge, die nicht oder nicht rechtzeitig geliefert wurde, beschränkt. Schadensersatzansprüche wegen positiver Vertragsverletzung oder unerlaubter Handlung werden ausgeschlossen. Dies gilt nicht, soweit wir für Personenschäden oder Schäden an privatgenutzten Sachen nach dem Produkthaftungsgesetz haften, sowie bei Vorsatz oder grober Fahrlässigkeit oder bei fahrlässiger Verletzung wesentlicher Vertragspflichten. Soweit hiernach unsere Haftung ausgeschlossen oder beschränkt ist, gilt dies auch zugunsten unserer Mitarbeiter.

## 6. Zahlung

Rechnungen sind, soweit nicht anders vereinbart, sofort nach Empfang der Ware ohne Abzug fällig. Bei verspäteter Zahlung stehen uns, ohne dass es einer Inverzugsetzung bedarf, Verzugszinsen in Höhe von 5 % über dem Basiszinssatz der EZB zu. Bei Zahlungsverzug sind alle offenstehenden (auch die noch nicht fälligen) Forderungen ohne jeden Abzug sofort zahlbar.

## 7. Eigentumsvorbehalt

Wir behalten uns das Eigentum an sämtlichen von uns gelieferten Waren bis zur vollständigen Tilgung aller unserer Forderungen vor. Bei Verarbeitung dieser Waren im normalen Fabrikationsprozess des Käufers sichert dieser uns die Wahrung unseres Eigentumsvorbehaltes an den Erzeugnissen im entsprechenden Werte zu. Verpfändungen und Sicherheitsübereignungen an andere sind während der Laufzeit unseres Eigentumsvorbehaltes nicht gestattet. Bei Zahlung in Wechsel oder Scheck erlischt unser Eigentumsvorbehalt erst nach Einlösung der Papiere.

## 8. Erfüllungsort und Gerichtsstand

Erfüllungsort für unsere Lieferungen sowie für die Zahlungen des Käufers ist Höhr-Grenzhäusen. Gerichtsstand für Kaufleute, soweit sie nicht Minderkaufleute sind, juristische Personen des öffentlichen Rechts und öffentlich rechtliche Sondervermögen, ist das für den Sitz der Firma Jäger zuständige Gericht.

## 9. Teilweise Aufhebung dieser Bedingungen

Sollten einzelne Teile der vorstehenden Lieferungs- und Zahlungsbedingungen durch Gesetz oder durch Sondervertrag wegfallen, wird dadurch die Wirksamkeit der übrigen Bestimmungen nicht berührt.

## Key word

## page

Accessories _____	39-40, 69-70,
Auxiliary devices _____	34, 36-37, 39
Balances _____	38
Banding wheels _____	41
Books _____	92
Brushes _____	52-53
Casting devices _____	57
Casting slips _____	3
Clay flours and grogs _____	2
Clay masses (plastic) _____	4-6
Clay roller _____	40
Cold wax _____	36
Compressor _____	62
Decorating colours _____	31
Dichtungsmittel _____	37
Engobes _____	28-30
Formsil (Deflocculant) _____	3
Frits _____	11
Glaze spray booth _____	39
Glazes _____	14-27
Glaze sprayer _____	62
Glazing claws / Calipers _____	50+76
Gloves _____	76
Glue _____	37
Grogs / Chamottes _____	2
Heating-wire _____	77
Jar mill, milling jars, grinding balls	71
Jet-mixer, Mass-/glaze-pump _____	63
Kiln furniture _____	72-75
Kilns and controller _____	78-90
Kiln accessories _____	77
Manual clay press _____	40
Measuring cylinder, Plastic vessel	39
Moulds _____	56-61
Orton cones _____	91
Plaster for moulds _____	57
Plaster plates _____	57
Plastic containers _____	55
Porcelain _____	7
Potter's wheels / accessories _____	68-70
Precious metall compounds _____	35
Procelain painter _____	35
Pugmills / Vacuum pugmill _____	66-67
Pyrometer _____	77
Raku _____	13, 76
Raw materials (masses / glaze)	8-10
Shelf-carriage _____	64
Slab-roller _____	64-65
Small purification plant _____	64
Sponges _____	54
Sponge rubber _____	54
Spray guns _____	62
Stains _____	32-33
Stand for modelling _____	41
Thinner _____	35
Tiles _____	37
Tools _____	42-51
Vacuum pugmill _____	
Vacuum mixer _____	66-67
Vitreous slips _____	30
Wheel-gauge _____	
Wheel-head _____	69

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Seit 1930