

Dental catalogue

2020 / 2021



Dear customers,

You work hard to make sure that everything goes smoothly in the mouths of your customers by creating wonderful work in your dental laboratories. We would like to help you with your work by providing outstanding products, clever ideas and optimal workflows.

All our thoughts and efforts are dedicated to the craftsmanship produced by dental technicians. We develop, produce and distribute products for both traditional craftsmanship and digitally supported dental technology around the world. All our products are brought together in the SHERA dental catalogue. New additions include new dental plasters like SHERAPOWER-ARTI and SHERAGET TO PLASTER, but also new 3D printing materials, like SHERAprint-cast&press, for example. We make sure that all products fit into the SHERA workflow and complement each other in a meaningful way. We combine both classic and digitally supported dental technology under one roof - for more process reliability in every job.

With our innovations, bestsellers and your favourite products from SHERA, your laboratory will run smoothly. You can trust the reliable quality and the people at SHERA, who are glad to be there for you - providing advice and support, a willing ear and a deep commitment to your handicraft!



Jens Grill
CEO

Made by us
with true pride





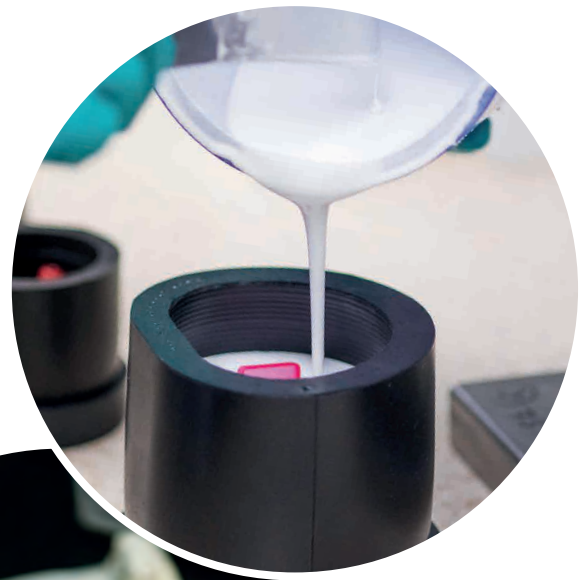
Here at SHERA, we produce 18 tons of dental stones and plasters, 5 tons of investment materials, one ton of silicones, many hectolitres of liquids, pastes and much more – every day.





Our dedicated production and quality assurance teams know exactly where their responsibility lies in creating perfectly functioning products. They identify themselves with their 'babies' such as the super hard stone SHERAHARD-ROCK or the classic SHERAFINA®2000.





We are very proud of the meticulous work done by the people at SHERA – from the incoming inspection of raw materials, through production to comprehensive quality assurance.

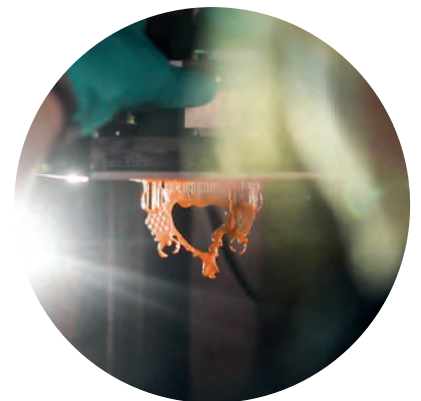




SHERA Academy

Profit from our expertise

At our premises in Lemförde, near to Lake Dümmer, we offer a wide range of courses and workshops on fascinating dentistry topics. One focus lies on the digital workflow in dental technology, from the scan through to the perfect, printed implant model produced with SHERAprint. We also impress with our extensive expertise on the classic side, such as model production and telescope technology, or with the casting of printed frames.





Follow us online - stay app to date

Follow us on Youtube, Facebook, Instagram and Pinterest, to constantly be up-to-date with SHERA. Visit us at www.shera.de and find the latest user manuals for our products - also available to download - as well as mixing tables for investments and several practical tips for your everyday lab work.

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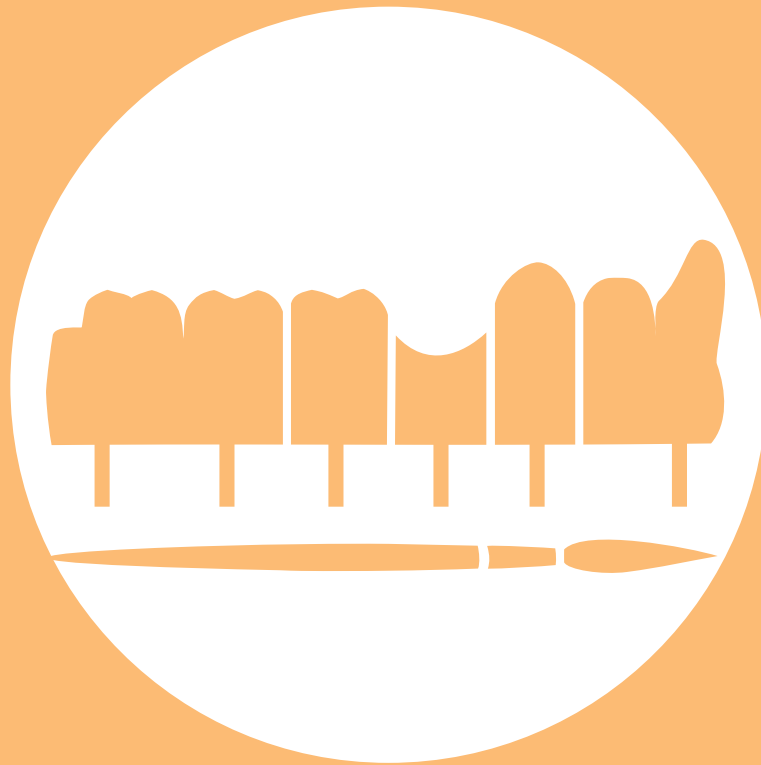
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Silicones





Stones & Plasters

As a market leader for dental stones and plasters, we attribute great importance to the quality while developing and producing. All SHERA stones and plasters are suitable for the use of silicone, alginate, polyether as well as hydrocolloid impressions and offer excellent technical properties such as:

- very fine-grained consistency,
- excellent flow characteristics,
- good thixotropic quality,
- precise reproduction of details,
- smooth, dense surfaces,
- firm margins even around thin preparations,
- easy processing: sawing, grinding, trimming without splintering,
- consistent technical data.

Our product range includes perfect stones and plasters for any kind of application: from working to presentation models, from CAD/CAM to opposing models. Altogether, we have more than 24 special stones and plasters for several applications in 25 different colours. Among them there are also the bestsellers SHERAHARD-ROCK and SHERAPURE.



Stones Type 4

Modelling and die stones

SHERA

PURE

Super hard stone



easily readable · colour reduced
non-splintering · extreme hardness

available in



cream white und light grey



Created by Andreas Nolte

Item no.	Unit
101155-25 (light grey)	18 kg (6 x 3 kg)
101155-82 (creme white)	
101153-25 (light grey)	3 kg sachet
101153-82 (creme white)	

Technical data	
Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	310
Hardness after 24 hours (MPa; N/mm ²)	330
Compressive strength after 1 hour (MPa; N/mm ²)	70
Setting expansion after 2 hours (%)	0.08
Working time (min)	6.0 - 7.0
End of setting (min)	approx. 30

Recommended for:

- Implant technique
- Sectioned models
- Master models
- Opposing models
- Static models

*Mixing ratio = Powder : distilled water



Stones Type 4

Modelling and die stones

SHERAMAXIMUM 2000

Super hard stone for especially high demands

- good thixotrope quality and very good flow characteristics
- can be scanned with several systems
- ideal for plastic basing systems
- exceptional hardness

Unit: 18 kg (4 x 4.5 kg)	4.5 kg
Item no.	Item no.
101015-18 (golden brown)	101013-18 (golden brown)
101015-22 (grey)	101013-22 (grey)
101015-46 (rich yellow)	101013-46 (rich yellow)
101015-70 (white)	101013-70 (white)
101015-84 (light yellow)	101013-84 (light yellow)

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	300
Hardness after 24 hours (MPa; N/mm ²)	320
Compressive strength after 1 hour (MPa; N/mm ²)	60
Setting expansion after 2 hours (%)	0.10
Working time (min)	6.0 - 7.0
End of setting (min)	approx. 30



Recommended for:

- Implant technique
- Sectioned models
- Master models
- Opposing models
- Static models

SHERAMAXIMUM

Super hard stone for high demands

- high thixotrope quality
- can be scanned with several systems
- very hard, nevertheless extreme easy processing

Unit: 20 kg
Item no.
101040-14 (yellow)
101040-18 (golden brown)
101040-22 (grey)

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	300
Hardness after 24 hours (MPa; N/mm ²)	320
Compressive strength after 1 hour (MPa; N/mm ²)	60
Setting expansion after 2 hours (%)	0.10
Working time (min)	6.0 - 7.0
End of setting (min)	approx. 30



Recommended for:

- Sectioned models
- Master models
- Opposing models
- Static models

*Mixing ratio = Powder : distilled water



SHERAHARD-ROCK



SHERAHARD-ROCK

Super hard stone, superior quality

- good thixotrope quality and very good flow characteristics
- can be scanned with several systems
- ideal for plastic basing systems
- extremely easy processing

Item no.	Unit	Item no.	Unit
101025-18 (golden brown)	18 kg	101023-18 (golden brown)	4.5 kg sachet
101025-20 (golden yellow)	(4 x 4.5 kg)	101023-20 (golden yellow)	
101025-84 (light yellow)		101023-84 (light yellow)	
101025-85 (light green)		101023-85 (light green)	

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	300
Hardness after 24 hours (MPa; N/mm ²)	320
Compressive strength after 1 hour (MPa; N/mm ²)	65
Setting expansion after 2 hours (%)	< 0.10
Working time (min)	5.0 - 6.0
End of setting (min)	approx. 30

Recommended for:

- Implant technique
- Sectioned models
- Master models
- Opposing models
- Static models



Stones Type 4

Modelling and die stones

SHERAPREMIUM

Super hard stone

- top price-performance ratio
- reduced working time

Unit: 20 kg	5 kg
Item no.	Item no.
101070-02 (apricot)	101071-02 (apricot)
101070-10 (ivory)	101071-10 (ivory)
101070-14 (yellow)	101071-14 (yellow)
101070-18 (golden brown)	101071-18 (golden brown)
101070-22 (grey)	101071-22 (grey)
101070-30 (light green)	101071-30 (light green)
101070-70 (white)	101071-70 (white)

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	280
Hardness after 24 hours (MPa; N/mm ²)	290
Compressive strength after 1 hour (MPa; N/mm ²)	60
Setting expansion after 2 hours (%)	0.10
Working time (min)	4.5 - 5.5
End of setting (min)	approx. 30



Recommended for:

- Sectioned models
- Master models
- Model casting works
- Opposing models
- Static models

SHERAAQUA

Super hard stone

- top price-performance ratio
- reduced working time
- creamy consistency

Item no.	Unit
101080-18 (golden brown)	20 kg
101080-50 (pink)	
101080-70 (white)	
101081-18 (golden brown)	5 kg
101081-50 (pink)	
101081-70 (white)	

Technical data

Mixing ratio (p : d. w.)*	100 : 23
Hardness after 2 hours (MPa; N/mm ²)	250
Hardness after 24 hours (MPa; N/mm ²)	270
Compressive strength after 1 hour (MPa; N/mm ²)	55
Setting expansion after 2 hours (%)	0.10
Working time (min)	4.5 - 5.5
End of setting (min)	approx. 30



Recommended for:

- Sectioned models
- Master models
- Model casting works
- Opposing models
- Static models

*Mixing ratio = Powder : distilled water



Stones Type 4 / 5

Modelling and die stones

SHERAFAVORIT

Resin-reinforced super hard stone

- for hard impression materials
- easy to remove
- excellent for pouring out fine preparations or undercuts

Item no.	Unit
101060-10 (ivory)	20 kg
101060-18 (golden brown)	
101061-10 (ivory)	5 kg
101061-18 (golden brown)	

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	300
Hardness after 24 hours (MPa; N/mm ²)	320
Compressive strength after 1 hour (MPa; N/mm ²)	60
Setting expansion after 2 hours (%)	0.10
Working time (min)	6.0 - 7.0
End of setting (min)	approx. 30

Recommended for:

- Sectioned models
- Master models
- Model casting works
- Oposing models
- Static models



SHERAPRIMA

Super hard stone type 5

- increased expansion
- balances the shrinking of some impression materials
- for denture repairs

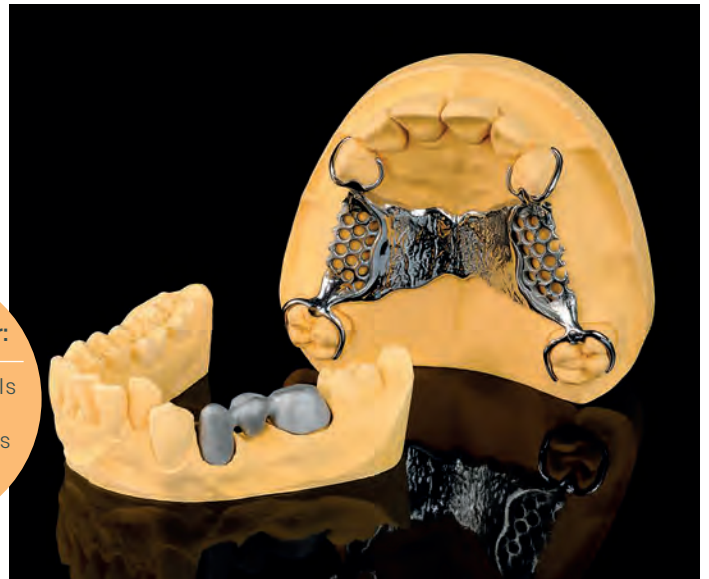
Item no.	Unit
101050-46 (rich yellow)	20 kg
101051-46 (rich yellow)	5 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	300
Hardness after 24 hours (MPa; N/mm ²)	320
Compressive strength after 1 hour (MPa; N/mm ²)	65
Setting expansion after 2 hours (%)	0.18
Working time (min)	6.0 - 7.0
End of setting (min)	approx. 35

Recommended for:

- Sectioned models
- Master models
- Oposing models
- Static models



SHERAJIVE

Rapid set super hard stone for creative technicians

- short demould time of 10 minutes
- can be used for various applications
- for relining and quick repairs

Item no.	Unit
101135-18 (golden brown)	18 kg
101135-84 (light yellow)	(4 x 4.5 kg)
101133-18 (golden brown)	4.5 kg
101133-84 (light yellow)	sachet

Technical data

Mixing ratio (p : d. w.)*	100 : 25
Hardness after 2 hours (MPa; N/mm ²)	200
Hardness after 24 hours (MPa; N/mm ²)	220
Compressive strength after 1 hour (MPa; N/mm ²)	50
Setting expansion after 2 hours (%)	0.14
Working time (min)	approx. 2.5
End of setting (min)	approx. 10

Recommended for:

- Working models
- Oposing models
- Situation models

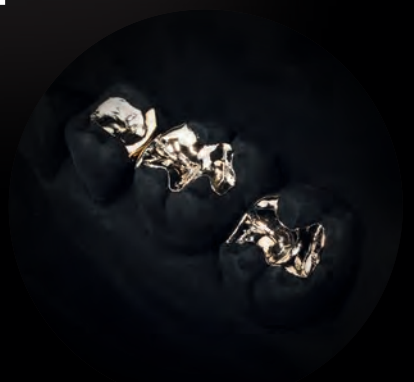




SHERABLACK-ROCK

Presentation stone type 4

- for presentation models
- perfect stage for prosthetic works
- underlines the dental technician's skill
 - jet-black colour
- displays its full gloss with SHERASEPAL-U



Item no.	Unit
101091-54	5 kg

Recommended for:
Presentation models

Technical data	
Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	240
Hardness after 24 hours (MPa; N/mm ²)	260
Compressive strength after 1 hour (MPa; N/mm ²)	50
Setting expansion after 2 hours (%)	0.10
Working time (min)	5.0 - 6.0
End of setting (min)	approx. 45



Stone for Basing Models & Special Plaster



Recommended for:

Dental arch bases



Recommended for:

Thermoplastic acrylics

SHERASOCKEL-FLÜSSIG

Super hard stone, liquid

- particular liquid consistency
- flows under arches and pins
- very dense, firm margins
- bubble-free bases
- low expansion for stress-free models

Item no.	Unit
10110-38 (bright blue)	20 kg
10110-46 (rich yellow)	
10110-62 (terra)	
10110-66 (turquoise)	
10110-70 (white)	
10110-85 (light green)	

Technical data

Mixing ratio (p : d. w.)*	100 : 23
Hardness after 2 hours (MPa; N/mm ²)	230
Hardness after 24 hours (MPa; N/mm ²)	250
Compressive strength after 1 hour (MPa; N/mm ²)	50
Setting expansion after 2 hours (%)	0.05
Working time (min)	3.5 - 4.5
End of setting (min)	approx. 40

SHERAEXPAND

Special plaster for thermoplastic resins

- increased expansion
- balances the shrinking of thermoplastic resins
- good flow properties
- smooth and homogeneous surfaces

Item no.	Unit
109031-70 (white)	5 kg bucket

Technical data

Mixing ratio (p : d. w.)*	100 : 20
Hardness after 2 hours (MPa; N/mm ²)	160
Hardness after 24 hours (MPa; N/mm ²)	180
Compressive strength after 1 hour (MPa; N/mm ²)	30
Setting expansion after 2 hours (%)	approx. 1.0
Working time (min)	4.0 - 6.0
End of setting (min)	approx. 40



SHERA GET

TO PLASTER



GET THE BEST PLASTER!

SHERA GET TO PLASTER

Hard plaster type 3

- for all prosthetic, opposing and splint models
 - extremely easy to mix
 - tolerant in processing (28ml – 30ml)
 - bubble-free mixing
 - silky surface

Item no.	Unit
102110-22 (silver)	18 kg
102110-38 (sky)	18 kg
102110-70 (snow)	18 kg
102110-84 (sun)	18 kg

Recommended for:

Prosthetic technique
Opposing models
Splint models

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	110
Hardness after 24 hours (MPa; N/mm ²)	120
Compressive strength after 1 hour (MPa; N/mm ²)	40
Setting expansion after 2 hours (%)	0.15
Working time (min)	4.0 - 5.0
End of setting (min)	approx. 20



Plasters type 3

Modelling plasters

SHERADYNAMIC

Very fast hard plaster

- ideally suitable for fast repair models
- optimised expansion for denture technique
- even for investing of models in flasks
- good flow characteristics
- smooth and homogeneous surfaces

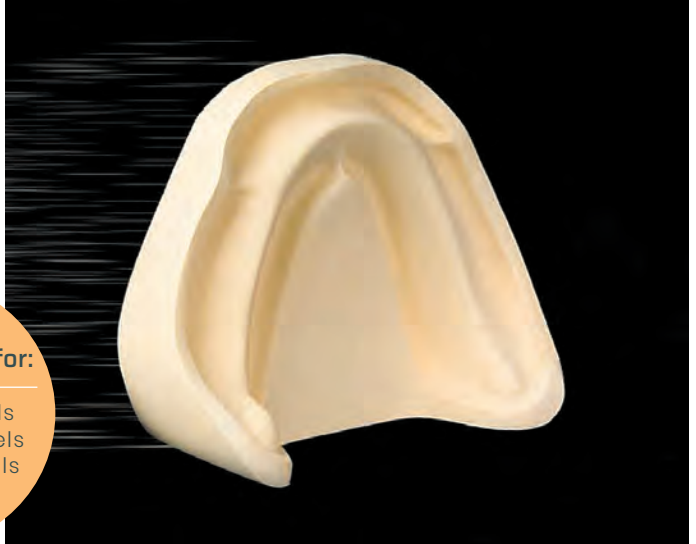
Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	110
Hardness after 24 hours (MPa; N/mm ²)	120
Compressive strength after 1 hour (MPa; N/mm ²)	40
Setting expansion after 2 hours (%)	0.15
Working time (min)	2.5 - 3.0
End of setting (min)	approx. 10

Item no.	Unit
102120-14 (yellow)	20 kg

Recommended for:

- Working models
- Opposing models
- Situation models



SHERAPLASTER

Hard plaster, superior quality

- for all prosthetic models
- for investing of models in flasks
- creamy consistency
- very good flow characteristics
- firm margins
- smooth and homogeneous surfaces

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	120
Hardness after 24 hours (MPa; N/mm ²)	140
Compressive strength after 1 hour (MPa; N/mm ²)	45
Setting expansion after 2 hours (%)	0.15
Working time (min)	4.0 - 5.0
End of setting (min)	approx. 25

Item no.	Unit
102010-14 (yellow)	20 kg
102010-24 (green light)	
102010-26 (light blue)	
102010-70 (white)	

Recommended for:

- Working models
- Opposing models
- Situation models



SHERAALPIN

Hard plaster

- for all prosthetic models
- for investing of models in flasks
- shortened working time
- very good flow characteristics
- smooth and homogeneous surfaces

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	100
Hardness after 24 hours (MPa; N/mm ²)	110
Compressive strength after 1 hour (MPa; N/mm ²)	40
Setting expansion after 2 hours (%)	0.15
Working time (min)	3.5 - 4.0
End of setting (min)	approx. 20

Item no.	Unit
102020-14 (yellow)	20 kg
102020-26 (light blue)	
102020-70 (white)	

Recommended for:

- Working models
- Opposing models
- Situation models





Plasters Type 3 / 2



SHERABIANCO

Hard plaster for orthodontics

- snow-white
- very dense, homogeneous and creamy consistency
- for bubble-free models
- very easy to etch

Item no.	Unit
102180-58 (snow-white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 28
Hardness after 2 hours (MPa; N/mm ²)	120
Hardness after 24 hours (MPa; N/mm ²)	140
Compressive strength after 1 hour (MPa; N/mm ²)	40
Setting expansion after 2 hours (%)	0.15
Working time (min)	5.0 - 6.0
End of setting (min)	approx. 20

Recommended for:

Situation models
Static models
Repair models in the
prosthetic technique
Opposing models

SHERAKFO-GIPS

Hard plaster for orthodontics

- dense and homogeneous consistency
- very easy to etch

Item no.	Unit
102080-58 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	100
Hardness after 24 hours (MPa; N/mm ²)	130
Compressive strength after 1 hour (MPa; N/mm ²)	40
Setting expansion after 2 hours (%)	0.15
Working time (min)	5.0 - 6.0
End of setting (min)	approx. 25

Recommended for:

Situation models
Static models
Repair models in the
prosthetic technique
Opposing models



Recommended for:

Situation models
Flask technique

SHERAALABASTER

Plaster type 2 (class II)

- for investing of partial and full dentures
- good flow characteristics
- precise reproduction of all details of wax models

Item no.	Unit
103010-70 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 45 - 50
Hardness after 2 hours (MPa; N/mm ²)	40
Hardness after 24 hours (MPa; N/mm ²)	45
Compressive strength after 1 hour (MPa; N/mm ²)	20
Setting expansion after 2 hours (%)	0.18
Working time (min)	2.0 - 3.0
End of setting (min)	approx. 20

*Mixing ratio = Powder : distilled water



SHERA POWER-ARTI

The articulating plaster. Keeps its promises.

- shellproof
- adheres extremely well, even to smooth model surfaces
- easy to mix and thixotrope

Item no.	Unit
102160-70 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 28
Hardness after 2 hours (MPa; N/mm ²)	100
Hardness after 24 hours (MPa; N/mm ²)	120
Compressive strength after 1 hour (MPa; N/mm ²)	30
Setting expansion after 2 hours (%)	< 0.04
Working time (min)	2.0 - 2.5
End of setting (min)	approx. 15

Recommended for:

Articulating
Milling bases
Over bites





Articulating Plasters



SHERAARTI

Articulating plaster

- high adhesive effect
- reduced working time
- extreme low expansion
- excellent stacking properties

Recommended for:

Articulating
Milling bases
Over bites

Item no.	Unit
102040-70 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	80
Hardness after 24 hours (MPa; N/mm ²)	90
Compressive strength after 1 hour (MPa; N/mm ²)	25
Setting expansion after 2 hours (%)	< 0.03
Working time (min)	2.0 - 2.5
End of setting (min)	approx. 15



SHERAARTI-QUICK

Fast-setting articulating plaster

- extra-white colour
- very short working time
- extreme low expansion
- very thixotrope

Recommended for:

Articulating
Milling bases
Over bites

Item no.	Unit
102050-70 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	80
Hardness after 24 hours (MPa; N/mm ²)	90
Compressive strength after 1 hour (MPa; N/mm ²)	25
Setting expansion after 2 hours (%)	< 0.03
Working time (min)	1.0 - 1.5
End of setting (min)	approx. 10

*Mixing ratio = Powder : distilled water



Articulating Plasters



Recommended for:

Articulating
Milling bases
Over bites

SHERAADHESO

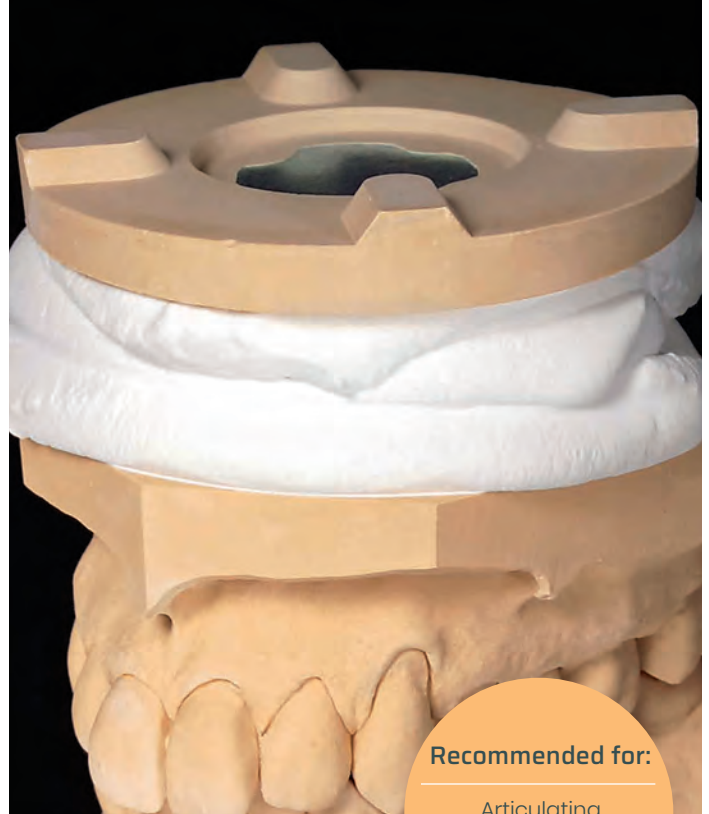
Articulating plaster with high adhesive strength

- very high adhesive effect
- short working time
- extreme low expansion
- excellent stacking properties

Item no.	Unit
102060-70 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 30
Hardness after 2 hours (MPa; N/mm ²)	80
Hardness after 24 hours (MPa; N/mm ²)	90
Compressive strength after 1 hour (MPa; N/mm ²)	25
Setting expansion after 2 hours (%)	< 0.03
Working time (min)	2.0 - 2.5
End of setting (min)	approx. 15



Recommended for:

Articulating
Cloud-layer technique
Milling bases
Over bites

SHERAMOUNT

Articulating plaster

- high adhesive effect
- creamy consistency
- excellent stability
- top price-performance ratio

Item no.	Unit
102070-70 (white)	20 kg

Technical data

Mixing ratio (p : d. w.)*	100 : 40
Hardness after 2 hours (MPa; N/mm ²)	55
Hardness after 24 hours (MPa; N/mm ²)	60
Compressive strength after 1 hour (MPa; N/mm ²)	20
Setting expansion after 2 hours (%)	< 0.05
Working time (min)	2.0 - 2.5
End of setting (min)	approx. 15



Model resin



SHERAPOLAN 2 : 1

Model resin based on polyurethane

- ideal for pouring out thin undercut dies
- optimised for scanning in grey colour
- dimensionally stable and long-lasting
- short setting time
- absolute dimensionally stable margins and resistant to abrasion
- very hard material which is easy to saw, polish and trim

Item no.

516010 (ivory), 516011 (light brown), 516017 (grey)

Unit

set consists of:
300 g component A, 150 g component B, 10 mixing cups,
5 spatulas

The SHERA assistants



SHERABRILLIANT

Stone / plaster hardener

- hardens and seals stone / plaster surfaces
- makes stone / plaster models shine
- for final treatment of stone / plaster models
- water repellent

Item no.	Unit
709035	500 ml



SHERASON 928

Stone / plaster solvent

- removes stone and plaster residues from dentures or spatulas
- can be diluted 1 : 2 with water
- appropriate for ultrasonic bath

Item no.	Unit
702080	1 litre
702081	5 litres



SHERAFLOC

Stone / plaster precipitating agent

- bonds particles in the plaster trap
- prevents blocked pipes
- reduces unpleasant odours
- use 10 ml of SHERAFLOC for every 1 litre of water

Item no.	Unit
709046	2 x 5 litres



Technical data Stones / Plasters

Modelling plasters Type 4 +5

special characteristics

colours

SHERAHARD-ROCK

extreme easy processing

golden brown, golden yellow,
light yellow, light green

SHERAMAXIMUM 2000

very good flow characteristics

golden brown, grey,
rich yellow, white, light yellow

SHERAMAXIMUM

extreme hardness

yellow, golden brown, grey

SHERAPURE

easily readable

light grey, creme white

SHERAPREMIUM

reduced working time

apricot, ivory, yellow,
golden brown, grey, light green, white

SHERAAQUA

creamy consistency

golden brown, pink, white

SHERAFAVORIT

resin-reinforced

ivory, golden brown

SHERAPRIMA

increased expansion, stone type 5

rich yellow

SHERAJIVE

demould time of 10 minutes

golden brown, light yellow

Stone for Basing Models & Special Plaster

special characteristics

colours

SHERASOCKEL-FLÜSSIG

liquid consistency

bright blue, rich yellow, terra,
turquoise, white, light green

SHERAEXPAND

for thermoplastic resins

white

SHERABLACK-ROCK

perfect stage for prosthetic works

black



Technical data Stones / Plasters

mixing ratio (p : d. w.)	hardness after 2 hours (MPa; N/mm ²)	hardness after 24 hours (MPa; N/mm ²)	compressive strength after 1 hour (MPa; N/mm ²)	setting expansion after 2 hours (%)	working time (min)	end of setting (min)
100 : 20	300	320	65	< 0.10	5.0 - 6.0	approx. 30
100 : 20	300	320	60	0.10	6.0 - 7.0	approx. 30
100 : 20	300	320	60	0.10	6.0 - 7.0	approx. 30
100 : 20	310	330	70	0.08	6.0 - 7.0	approx. 30
100 : 20	280	290	60	0.10	4.5 - 5.5	approx. 30
100 : 23	250	270	55	0.10	4.5 - 5.5	approx. 30
100 : 20	300	320	60	0.10	6.0 - 7.0	approx. 30
100 : 20	300	320	65	0.18	6.0 - 7.0	approx. 35
100 : 25	200	220	50	0.14	approx. 2.5	approx. 10

mixing ratio (p : d. w.)	hardness after 2 hours (MPa; N/mm ²)	hardness after 24 hours (MPa; N/mm ²)	compressive strength after 1 hour (MPa; N/mm ²)	setting expansion after 2 hours (%)	working time (min)	end of setting (min)
100 : 23	230	250	50	0.05	3.5 - 4.5	approx. 40
100 : 20	160	180	30	approx. 1.00	4.0 - 6.0	approx. 40
100 : 20	240	260	50	0.10	5.0 - 6.0	approx. 45



Technical data Stones / Plasters

Stones Type 3

	special characteristics	colours
SHERADYNAMIC	for urgent repair models	yellow
SHERAPLASTER	firm margins	yellow, light green, light blue, white
SHERAALPIN	reduced working time	yellow, light blue, white
SHERAGET TO PLASTER	extremely easy to mix	snow, sun, silver, sky
SHERABIANCO	for snow-white orthodontic works	snow-white
SHERAKFO-GIPS	for orthodontic works	superwhite
SHERAALABASTER	for the flask technique, plaster type 2	white

Articulating Plasters

	special characteristics	colours
SHERAARTI	extreme low expansion	white
SHERAADHESO	very high adhesive strength	white
SHERAARTI-QUICK	very short setting time	white
SHERAMOUNT	creamy consistency	white
SHERAPOWER-ARTI	shellproof	white



Technical data Stones / Plasters

mixing ratio (p : d. w.)	hardness after 2 hours (MPa; N/mm ²)	hardness after 24 hours (MPa; N/mm ²)	compressive strength after 1 hour (MPa; N/mm ²)	setting expansion after 2 hours (%)	working time (min)	end of setting (min)
100 : 30	110	120	40	0.15	2.5 - 3.0	approx. 10
100 : 30	120	140	45	0.15	4.0 - 5.0	approx. 25
100 : 30	100	110	40	0.15	3.5 - 4.0	approx. 20
100 : 28 - 30	110	120	40	0.15	4.0 - 5.0	approx. 20
100 : 28	120	140	40	0.15	5.0 - 6.0	approx. 20
100 : 30	100	130	40	0.15	5.0 - 6.0	approx. 25
100 : 45-50	40	45	20	0.18	2.0 - 3.0	approx. 20

mixing ratio (p : d. w.)	hardness after 2 hours (MPa; N/mm ²)	hardness after 24 hours (MPa; N/mm ²)	compressive strength after 1 hour (MPa; N/mm ²)	setting expansion after 2 hours (%)	working time (min)	end of setting (min)
100 : 30	80	90	25	< 0.03	2.0 - 2.5	approx. 15
100 : 30	80	90	25	< 0.03	2.0 - 2.5	approx. 15
100 : 30	80	90	25	< 0.03	1.0 - 1.5	approx. 10
100 : 40	55	60	20	< 0.05	2.0 - 2.5	approx. 15
100 : 28	100	120	30	< 0.04	2.0 - 2.5	approx. 15



Impression Material Treatment



SHERARELAXA

Impression and surface tension release agent

- for alginate, polyether and silicone impressions
- improves the flow properties of stones / plasters and investments
- releases surface tension of waxes
- bubble-free models without any residues
- very good wetting properties
- formaldehyde and solvent free
- especially effective and economical in use

Item no.	Unit
709179	50 ml incl. spray nozzle
709175	500 ml

Product video

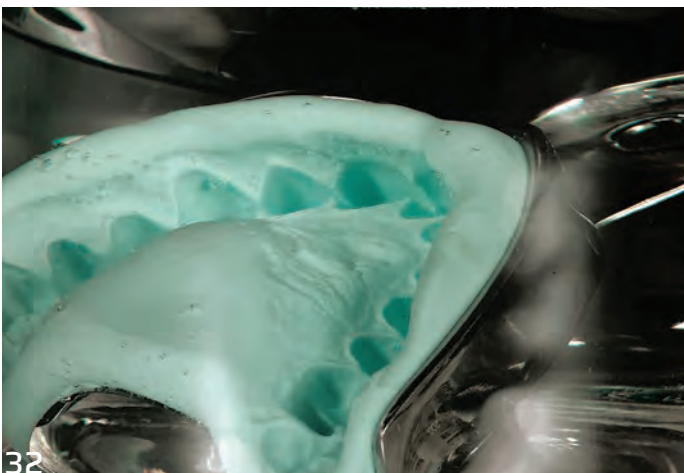


SHERAMASTER

Impression and surface tension release agent

- for silicones, polyether impressions and waxes
- increases the flow characteristics of stones / plasters in impressions
- prevents the formation of bubbles around wax-ups in investments
- alcohol, formaldehyde and solvent free
- odourless

Item no.	Unit
709070	1 litre



IMPRESSION DISINFECTANT

Aldehyde-free, ready for use disinfectant solvent for the dipping technique

- disinfects all surfaces of dental impression materials
- bactericide, yeasticidal, tuberculocidal, limited virucidal (enveloped viruses)
- has an inactivating effect on HBV, HIV, HCV
- against Noro- and Rota-viruses
- medical device of class IIa

Item no.	Unit
703020	1 litre
703021	5 litres



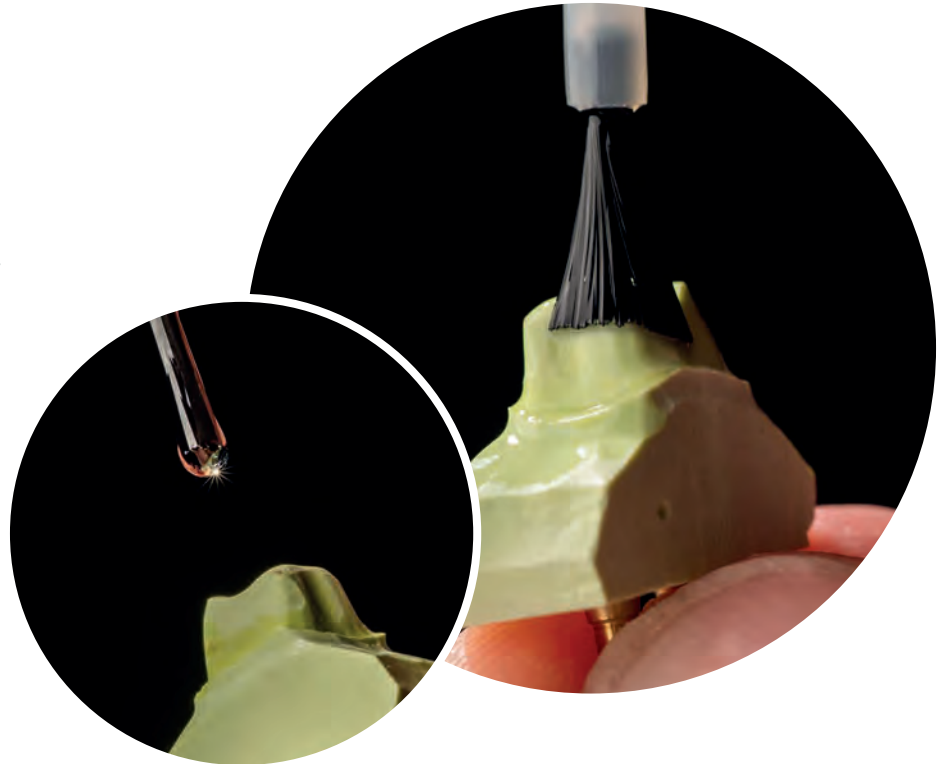
Isolating agents

SHERAISOLEX

Isolating agent – sponge

- isolates stone / plaster against wax
- isolates wax against wax
- isolates alloy against wax
- very thin and homogeneous isolating layer
- simple application

Item no.	Unit
701083	30 ml bottle with brush



SHERASEPAL-U

Separating agent spray based on wax

- separates stone / plaster against stone / plaster
- separates polyether impressions against model resin
- seals simultaneously
- thin separating layer

Item no.	Unit
701055	500 ml spray can



SHERASEPARAT

Separating agent spray based on wax

- separates stone / plaster against stone / plaster
- separates polyether impressions against model resin
- very thin and homogeneous separating layer
- fast drying
- seals simultaneously

Item no.	Unit
701105	300 ml spray can





Isolating Agents



SHERASEP-G

Stone / plaster separating agent based on wax and silicone

- separates stone / plaster against stone / plaster
- seals simultaneously
- very thin separating layer
- water repellent

Item no.	Unit
701045	500 ml



SHERATEC

Separating agent based on alginate

- colour: colourless
- separates stone / plaster against acrylic
- is absorbed completely by the stone / plaster
- very thin separating film
- formaldehyde and silicone free

Item no.	Unit
701066	500 ml

Adhesive & Co.



SHERAMEGA 2000

Instant adhesive based on cyanoacrylate

- viscosity: 20 - 40 mPas
- excellent adhesive strength
- high fluidity
- patented lid
- anaerobic instant adhesive

Item no.	Unit
958120	20 g



SILICONE SPRAY

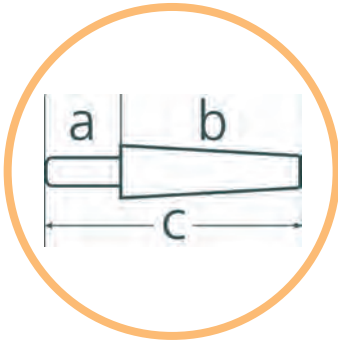
Maintenance spray

- for maintenance of articulators, trimmers, vibrators and flasks
- prevents sticking of stone / plaster
- for wetting silicones when working in the acrylic technique
- very economical in use

Item no.	Unit
709165	400 ml spray can



Pins



DOWEL PIN

- size 2
- a: 5 mm, b: 17 mm, c: 22 mm

Item no. 942102
Unit 1000 pieces



DOWEL PIN

- with milling
- a: 5 mm, b: 12 mm, c: 17 mm

Item no. 942103
Unit 1000 pieces



DOWEL PIN

- size 2
- with swordfish end for retention
- a: 11 mm, b: 17 mm, c: 28 mm

Item no. 942104
Unit 1000 pieces



BI-PIN

- with small sleeve
- a: 5 mm, b: 14 mm, c: 19 mm
- sleeve c: 12 mm

Item no. 942203
Unit 100 pieces



PIN DRILL

- reinforced with web
- \varnothing 1.60 mm
- for TAPERED and GRADUATED PIN
- c: 35 mm
- shaft dimension 3.0 mm

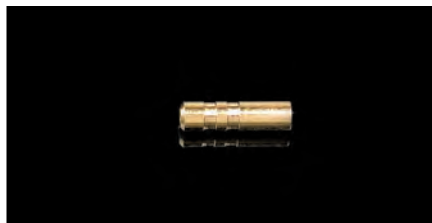
Item no. 942901
Unit 1 piece



TAPERED PIN

- for DRILL (\varnothing 1.60 mm)
- a: 5 mm, b: 13 mm, c: 18 mm

Item no. 942401
Unit 1000 pieces



METAL SLEEVE

- for TAPERED PIN
- c: 10 mm

Item no. 942402
Unit 1000 pieces



GRADUATED PIN

- with sleeve
- for DRILL (\varnothing 1.60 mm)
- a: 6 mm, b: 12 mm, c: 18 mm
- sleeve c: 11 mm

Item no. 942801
Unit 1000 pieces



Silicone Putties

Addition cure silicone putties 1:1



SHERATANDEM 60

Silicone putty

- shore hardness A 60
- for the preparation of over bites as well as bite registrations and of models for denture repairs
- very accurate in reproduction in detail, boil-proof
- dimensionally stable
- very homogeneous when kneading

Item no.	Unit
301270	2 x 1,5 kg
301275	2 x 5 kg



SHERATANDEM 85

Silicone putty

- shore hardness A 85
- for the preparation of over bites as well as bite registrations and of models for denture repairs
- very accurate in reproduction in detail, boil-proof
- dimensionally stable
- very homogeneous when kneading

Item no.	Unit
301240	2 x 1,5 kg
301245	2 x 5 kg



SHERATANDEM 90

Silicone putty

- shore hardness A 90
- for the preparation of over bites as well as bite registrations and of models for denture repairs
- very accurate in reproduction in detail, boil-proof
- dimensionally stable
- very homogeneous when kneading

Item no.	Unit
301210	2 x 1,5 kg
301215	2 x 5 kg



Silicone Putties

Addition cure silicone putties 1 : 1



SHERADUETT-SOFT

Silicone putty

- shore hardness A 85
- for the preparation of over bites as well as bite registrations and of models for denture repairs
- for isolating teeth against stone when flasking
- very exact moulding, stable to boiling
- dimensional stability

Item no.	Unit
301040	2 x 1.5 kg
301045	2 x 5 kg



SHERADUETT

Silicone putty

- shore hardness A 90
- for the preparation of over bites as well as bite registrations and of models for denture repairs
- for isolating teeth against stone when flasking
- very exact moulding
- dimensional stability

Item no.	Unit
301010	2 x 1.5 kg
301015	2 x 5 kg



Silicone Putties

Addition cure silicone putties 1:1



Recommended for the production of:

Models for denture repairs, over bites, bite registrations

SHERADUPLICICA

Silicone putty

- shore hardness A 85
- for isolating teeth against stone when flasking
- very exact moulding
- dimensional stability, boil-proof

Item no.	Unit
301070	2 x 1.5 kg
301071	2 x 3 kg

SHERADUPLICICA-HARD

Silicone putty

- shore hardness A 95
- slightly oily
- very exact moulding
- dimensional stability, boil-proof

Item no.	Unit
301130	2 x 1.5 kg
301131	2 x 3 kg

Condensation cure silicone putties



Recommended for the production of:

Models for denture repairs, over bites

SHERAEXACT 65

Silicone putty

- shore hardness A 65
- for isolating teeth against stone when flasking
- silky smooth consistency
- very homogeneous and dense
- high final strength
- mixes easily with hardener SHERAPASTENHÄRTER

Item no.	Unit
302010	1.3 kg can
302016	10 kg bucket

SHERAPASTENHÄRTER

Catalyst for SHERA silicone putties

- in plastic tube
- simple to dose

Item no.	Unit
302094	40 ml tube

SHERAEXACT 85

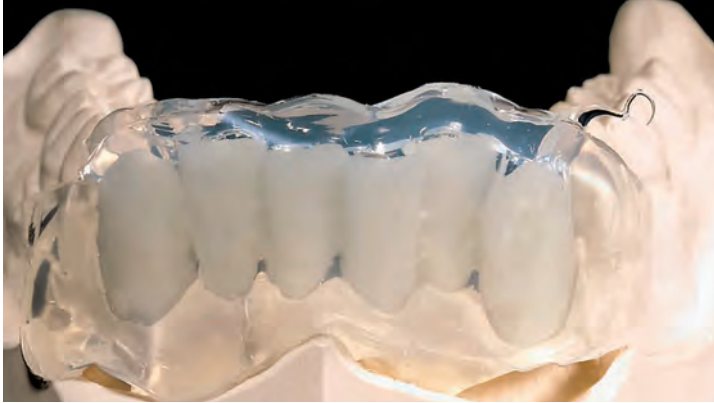
Silicone putty

- shore hardness A 85
- for isolating teeth against stone when flasking
- soft and non-sticky
- very homogeneous and dense
- highly dimensionally stable
- boil-proof
- mixes easily with hardener SHERAPASTENHÄRTER

Item no.	Unit
302021	1.8 kg can
302026	10 kg bucket
302027	25 kg bucket



Silicones in Cartridges



SHERACRYSTAL

Transparent silicone

- addition cure silicone
- on the basis of polysiloxane
- for working with light cure materials
- for the production of over bites
- shore hardness A 70

Item no.	Unit
960201	Set consists of: 2 double cartridges each of 50 ml, 10 mixing turquoise



SHERAGINGIVAL

Silicone natural appearance

- for gingival masks for model preparation
- addition cure silicone
- special colour with natural appearance
- easy to cut and trim
- for the direct and indirect use
- shore hardness A 70

Item no.	Unit
960101	Set consists of: 2 double cartridges each of 50 ml, 12 mixing nozzles pink



MIXING GUN

for 2-phase cartridges

Item no.	Unit
960301	1 piece

MIXING NOZZLES

for 50 ml cartridges

- pink, ø 7 mm, 65 mm long (for SHERAGINGIVAL)
- yellow, ø 6 mm, 50 mm long (for individual application)
- blue, ø 5 mm, 45 mm long (for individual application)

Item no.	Unit
960302 (pink)	50 pieces
960303 (yellow)	
960307 (blue)	

INTRA ORAL TIPS

for mixing nozzles in pink

Item no.	Unit
960304	50 pieces

MILLING BUR

for SHERAGINGIVAL

Item no.	Unit
960306	1 piece



Casting technique

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Waxes
& Co.

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Soldering
Agents



Accessories for Modelling



SHERAPLAST

Light-curing modelling resin, ready for use

- for modelling of telescopic and conical crowns, milled elements and attachments, inlays and onlays, chrome castings parts, individual implant abutments and bars as well as crowns and bridges
- very good fluidity while coupled with high stability
- burns without residues
- colour: red translucent

Item no.	Unit
509010	3 dosing syringes of 3 g incl. 10 intra oral tips



DEEP DRAWING FOILS

- for the Adapta System
- burns without residues
- ø 42 x 0.6 mm

Item no.	Unit
990104 (hard)	100 pieces
990105 (soft)	



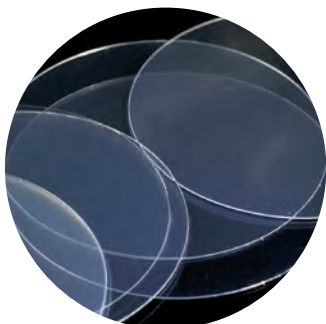
SHERASTUMPFLACK

Die spacer

- serves as spacer between die and crown
- fast drying
- scratch resistant
- the layer of varnish does not soften when in contact with hot water or steam

Item no.
962101 (blue, 10 µm)
962201 (clear, 3 µm)
962301 (red, 8 µm)
962401 (silver, 13 µm)

Unit
15 ml bottle with brush



UNDERLAY FOILS

- ø 42 x 0.1 mm

Item no.	Unit
990106	200 pieces

THINNER for SHERASTUMPFLACK

Item no.	Unit
962801	100 ml



Waxes



AESTHETIC WAX

- ideally suited for wax ups
- for modelling crowns and bridges
- for clean and smooth surfaces
- does not smear
- can be milled
- free of titanium dioxide therefore, burns without residues

Item no.	Unit
974115 (white)	45 g can

CERVICAL WAX

- for precisely tailored crown margins
- free of tensions
- very low thermal contraction
- burns without residues

Item no.	Unit
974121 (red)	45 g can

CARVING WAX

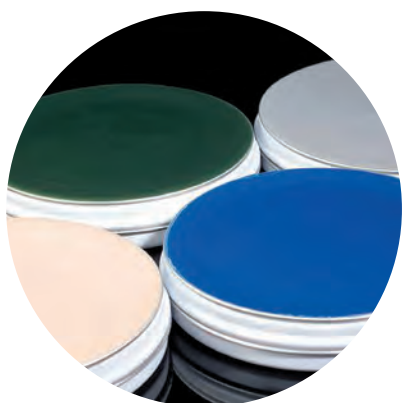
- carves without flaking
- higher hardness
- for very smooth surfaces
- burns without residues

Item no.	Unit
974111 (green)	45 g can

SCAN WAX

- modelling and block-out wax
- laser and light opaque
- for very smooth surfaces
- burns without residues

Item no.	Unit
SD802010 (beige)	45 g can



MODELLING WAX

- for perfect modelling
- saves working time
- very good sculpturing features
- short cool-down phase
- very low thermal contraction
- free of plastic particles

Item no.	Unit
974101 (green)	45 g can
974102 (grey)	
974104 (beige)	
974105 (blue)	



DIP COAT SEALING WAX

- dip coat sealing wax granule
- simple to dose
- elastic, but stable with high modulus of resilience
- very easy to carve

Item no.	Unit
974296 (orange)	80 g



Waxes

SHERAREPRO-WAX

Modelling and injection wax

- suitable for processing with the wax injector and for traditional wax ups with extended plastic phase
- lukewarm easily deformable, without breaking, tearing or splintering
- ideally suited for the production of wax occlusals and wax ups
- accepts facets and contact points very precisely
- suitable for press ceramics



Item no.	Unit
974150	1 block of 50 g



SHERACASTING-STICKS

- wax casting sticks with „reservoir“
- for a homogeneous casting structure without porosities
- simple treating of the casting by flooding with the casting stick
- easy separation after casting
- enlarged trunking cross for non-precious alloys

Item no.	Unit
974917 (ø 7.0 mm)	100 pieces
974918 (ø 8.0 mm)	
974919 (ø 9.0 mm)	

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ADHESIVE WAX

- elastic
- high adhesive strength
- high hardness
- exceedingly ductile
- low shrinkage
- ideally suited as a quick bonder

Item no.	Unit
974293 (red)	4 discs of ø 7.5 cm



WAX WIRE

- medium hardness
- dimensionally stable while mouldable at the same time

Item no.	Unit
974902 (ø 2.5 mm)	1 roll (250 g)
974903 (ø 3.0 mm)	
974901 (ø 3.5 mm)	
974904 (ø 4.0 mm)	



PINK SHEET WAX

- top quality
- multi-purpose wax
- exceptionally elastic
- excellence in modelling
- low contraction
- opaque colour for optimal control
- medical device of class I

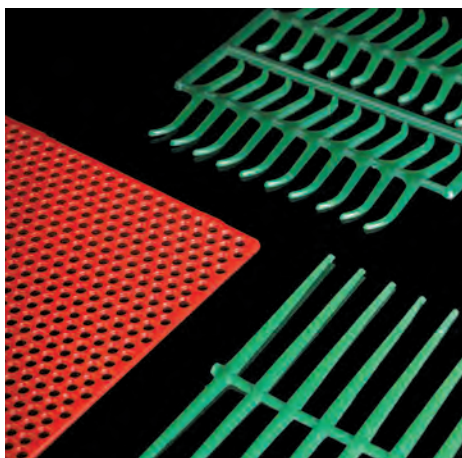
Item no.	Unit
974294	2,5 kg



PROFIL BARS ROUND

- ø 1.0 mm
- medium hardness

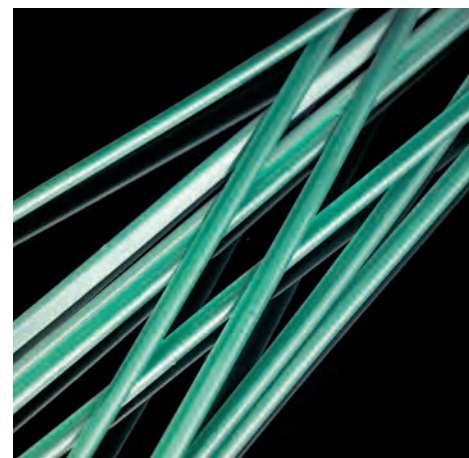
Item no.	Unit
974921 (emerald green)	38 g



WAX PATTERNS

- simple to adapt
- dimensionally stable while mouldable at the same time

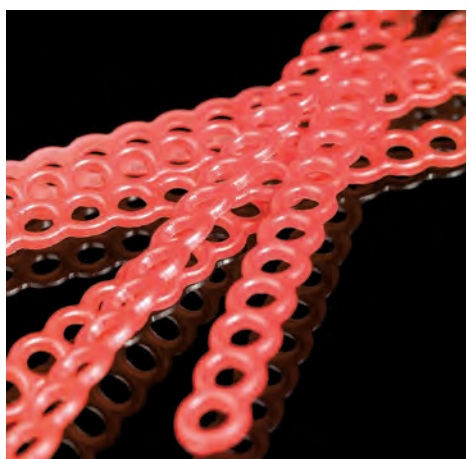
Item no.	Unit
974222	molar clasps, 10 sheets
974225	round grid retentions, 20 sheets
974226	ring clasps straight, 10 sheets



LOWER JAW BARS

- simple to adapt
- dimensionally stable while mouldable at the same time
- 2 x 4 x 145 mm

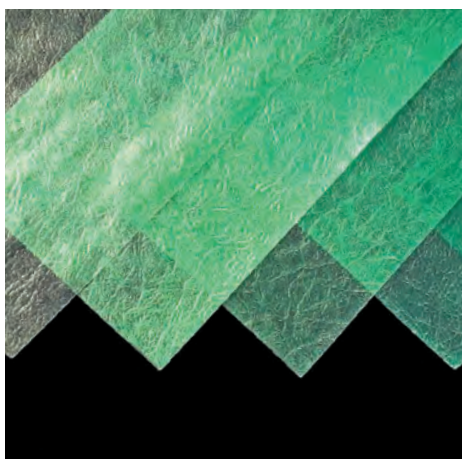
Item no.	Unit
974291	65 g



HOLE RETENTION BARS

- easy to adapt
- dimensionally stable while mouldable at the same time

Item no.	Unit
974292	25 bars



CASTING WAX COARSE-VEINED

- for chrome casting
- high quality ductile
- easy to adapt
- does not stretch while moulding

Item no.	Unit
974213 (0.4 mm)	15 sheets
974214 (0.5 mm)	
974215 (0.6 mm)	



PREPARATION WAX

- for chrome casting
- elastic quality
- easy to adapt
- dimensionally stable while mouldable at the same time

Item no.	Unit
974201 (0.5 mm)	15 sheets
974202 (0.6 mm)	
974203 (0.7 mm)	





Investments

SHERA offers an extensive range of investments which meet the high demands of precision investment casting. The technical characteristics are convincing for these approved investments.

SHERA investments are:

- especially fine grained and thus have extremely good flow characteristics,
- precise in detail, as the creamy mass flows into even the finest of detail,
 - permeable for degassing,
- very easy to control in order to achieve an exact expansion,
 - used with one liquid only,
- optimal in order to bind a maximum of oxides,
- for precise casting results with a very high surface quality

All SHERA investments are as suitable for the shock heat as for the traditional slow heating process. From chrome casting to crown and bridge technique, as well as for one-piece casting or 3D printed casting designs: SHERA has developed perfectly suited investments for each technique.



SHERA FRIXION

Investment for telescopic crown technique

You are looking for perfect fitting telescopic crowns? This is easy to achieve with SHERAFRIXION. The expansion is considerably higher, exact to control and perfectly adapted to the requirements of the telescopic and conical crown technique. Whether

you use gold or non-precious alloys, even for single crowns as well as for bridges, the friction between primary and secondary crown can ideally be created with this investment.



SHERAFRIXION

- for telescopic crown and implant technique, for all kind of dental alloys
 - for crown and bridge technique, for all non-precious alloys
- for shock heat process and for the traditional slow heating process
 - for modellations of wax, self-curing or light curing
 - modelling resin (e.g. SHERAPLAST)

Item no.	Unit
201052	4.5 kg (25 sachets of 180 g)



SHERA

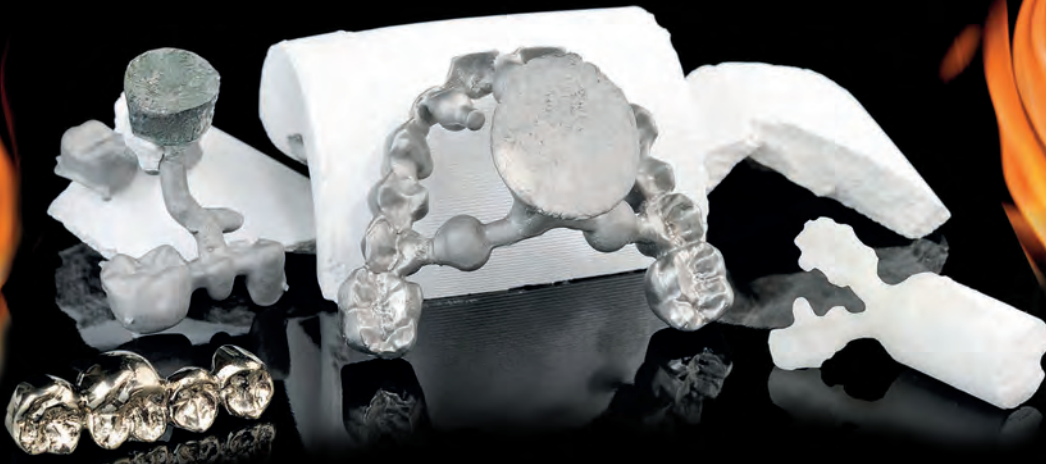
UNDER PRESSURE



Special investment for press ceramic

- very flowable
- expansion can be controlled reliably
- resists extreme pressure
- hard and yet can be easily removed by sandblasting
- for smooth surfaces of the pressed objects
- very thin reaction layer

Item no.	Unit
201061	3.5 kg (35 sachets of 100 g)



Being enthusiastic about precision of **SHERAFINA® 2000**

Rely on SHERAFINA® 2000 for your precision casting. When using this high-tech investment you have full control over expansion giving extremely smooth surfaces. SHERAFINA® 2000 will enable you to achieve perfect fitting results in every case - from large

bridge constructions to challenging crown work. Just trust in SHERA investments as we take intense care on dental casting!



SHERAFINA® 2000

Investment for crown and bridge technique

- premium quality for all gold up to non-precious alloys, press ceramic as well as gold telescopics
- very fine and dense consistency for castings with very smooth surfaces and extremely precise fit
 - easy to control expansion
- for shock heat and traditional heating process

Item no.	Unit
201010	3 kg (50 sachets of 60 g)
201011	6 kg (60 sachets of 100 g)
201012	6 kg (38 sachets of 160 g)



Crown and bridge investments

SHERAFINA® -RAPID

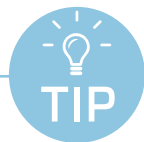
Investment for crown and bridge technique

- suitable for all high gold up to non-precious alloys
- expansion is easy to control
- for shock heat and for traditional heating process
- fine and dense consistency
- for castings with smooth surfaces
- for an precise fit

Item no.	Unit
201020	3 kg (50 sachets of 60 g)
201022	6 kg (38 sachets of 160 g)



Only short use of vibrating plate



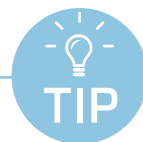
Place the muffle former for just a short time onto the vibrator when filling up with investment. Vibrating helps to prevent air bubbles, but also causes segregation of the material, if it takes too long.

SHERAMAGIC-GREEN

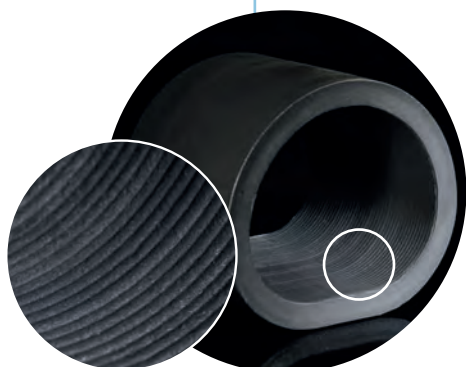
Special speed investment for non-precious alloys

- for crown and bridge technique
- for shock heat process and for the traditional slow heating process
- the colour change indicates the right time for placing the muffle into the furnace
- shortened setting time of approx. 10 minutes
- very easy devesting and sandblasting
- very suitable for milled wax and acrylic parts

Item no.	Unit
201042	4.5 kg (25 sachets of 180 g)



Mould formers made of cellular rubber



Use mould formers made of cellular rubber. In our opinion there is nothing better. Cellular rubber has a thermal elasticity that provides room for the desired controlled expansion. The thick-walled material has isolating properties which allows the investment to thermally react and set homogeneously irrespective of external conditions. The surface of the investment stays open porous at the mould wall and enables the arising gases and humidity to escape - this way avoiding muffle cracking and fissures. You may find them on page 56.



SHERA REFRACT

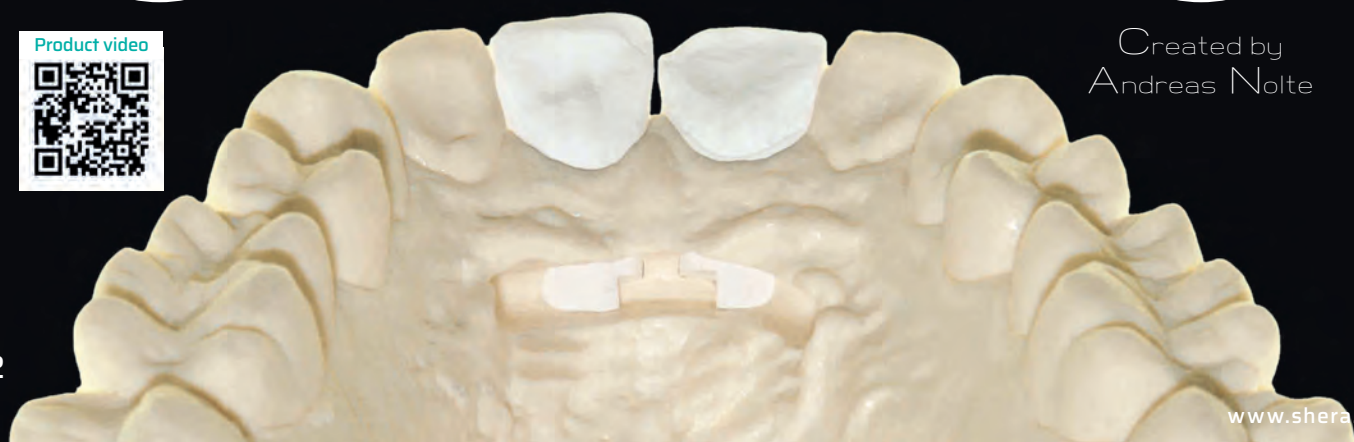
Refractory die material

- easy to control expansion
- extended working time
- perfect base for precise building up of the ceramic
 - long lasting and stable degree of moisture
- provides more time for aesthetics when fabricating veneers and inlays
 - can be easily removed by sandblasting

Item no.	Unit
203030	30 sachets of 33 g



Created by
Andreas Nolte





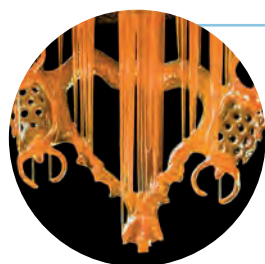
Special Investments

SHERAVEST RP

Investment for rapid prototyping

- phosphate bonded
- for 3D printed resin models
- for casting almost all kind of alloys
- very precise casting result
- maximum bonding of arising oxide

Item no.	Unit
202093	10 kg (40 sachets of 250 g)
202095	10 kg (4 sachets of 2.5 kg)

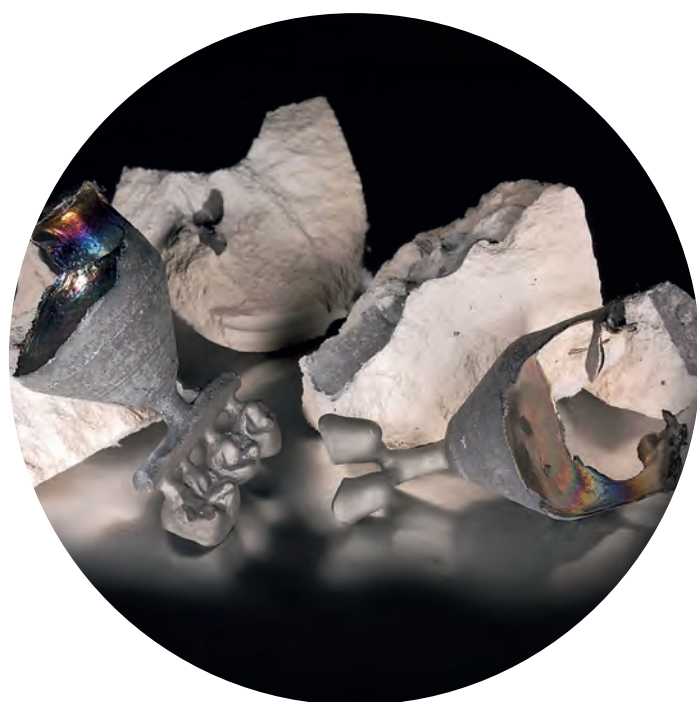


Allround Concept

The 3D printing resin SHERAprint-cast&press and the investment SHERAVEST RP are perfectly matched with each other. You may find them on page 133.



Product video



SHERATITAN-EASY

Investment for pure titanium and titanium containing alloys

- for shock heat and for traditional heating process
- reduces the formation of an alpha case layer on the cast object
- oxides largely remain bonded in the investment
- expansion can easily be controlled by the liquid
- can be cast without casting ring
- very fine and dense consistency
- for castings with very smooth surfaces
- for an exceptional precise fit

Item no.	Unit
209013	1.6 kg can



Chrome Investments



SHERACAST 2000

Chrome investment

- fine quality, creamy consistency
- for shock heat and for traditional heating process
- for silicone duplication
- for chrome castings with a very precise fit
- for extremely smooth surfaces
- for very stable margins
- binds the oxides

Item no.	Unit
202010	10 kg (50 sachets of 200 g)
202011	10 kg (25 sachets of 400 g)
202015	20 kg (8 sachets of 2.5 kg)



SHERACAST

Robust chrome investment

- robust quality
- for shock heat and for traditional heating process
- for silicone and gel duplication
- for chrome castings with a very precise fit
- for very smooth surfaces
- for very stable margins
- binds the oxides

Item no.	Unit
202020	10 kg (50 sachets of 200 g)
202021	20 kg (50 sachets of 400 g)
202025	20 kg (8 sachets of 2.5 kg)



Expansion liquids



SHERALIKUID

Mixing liquid

- special expansion liquid for all SHERA investments
- can be mixed with distilled water according to the recommendations given for the investment used
- sensitive to cold

Item no.	Unit
208010	1 litre
208011	5 litres

SHERALIKUID EXTRA

Mixing liquid

- special expansion liquid
- for any kind of work requiring a greater expansion
- use only as admixture with SHERALIKUID
- sensitive to cold

Item no.	Unit
208020	1 litre

MEASURING CYLINDER

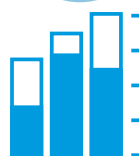
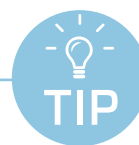
- measuring volume of up to 100 ml
- scale in embossed fond
- stable due to hexagon base
- thermal load up to 80°C

Item no.	Unit
992302	1 piece



WINTER STOCKS

Remember to build up winter stocks of SHERALIKUID in due time. The liquid is sensitive to cold and cannot be delivered at temperatures lower than +5°C.



Mixing ratios

Which mixing ratio leads to the best results? On our homepage www.shera.de you may find the requested information of SHERA investments. For further questions please direct your inquiry to our application technicians. They are pleased to assist you.



Mould formers

For each casting we have developed the suitable mould former made of cellular rubber. The elasticity of this material allows the investment to expand freely. The inside walls of the formers are ribbed, this imparts a surface on the mould

which can more easily degas in the furnace and hence prevent cracking. Moreover, the mould surrounding of one centimetre thickness provides an optimal climate and thus makes highest precision possible.



SHERAMUFFELFORMER K&B

with sprue former

- reusable multiple times
- facilitates the expansion of the investment

Item no.	Unit
926101 (3er mould)	1 piece
926102 (6er mould)	
926103 (9er mould)	

SHERAMUFFELFORMER MG

without sprue former

- reusable multiple times
- facilitates the expansion of the investment

Item no.	Unit
926105	1 piece

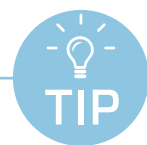


SHERABIO-MUFFELVLIES

Bio casting ring liner

- 25 metres per roll
- well-tolerated AES wool
- protects the muffles made of cellular rubber against abrasion
- enables an increased porosity of silicone muffles
- extra thick and soft
- yields to expansion

Item no.	Unit
926211	1 roll (50 x 1 mm)
926212	1 roll (55 x 1 mm)



For an improved optical result

Use white casting ring liner inside of the muffle. The wax-up can be seen much better due to the bright colour of the ring liner – for more control when investing. The casting ring liner does not alter the optimum properties of the muffle former.



Accessories for investment models



SHERAPORAL

Solvent free dipping hardener

- hardens and seals investment models
- very low viscosity
- it soaks very easily into the model's surface
- to be used without thinner

Item no.	Unit
926401	1 litre
926402	5 litres

SHERAPOR-L

Dipping hardener

- hardens and seals investment models
- wax patterns will adhere better
- very low viscosity
- it soaks very easily into the model's surface

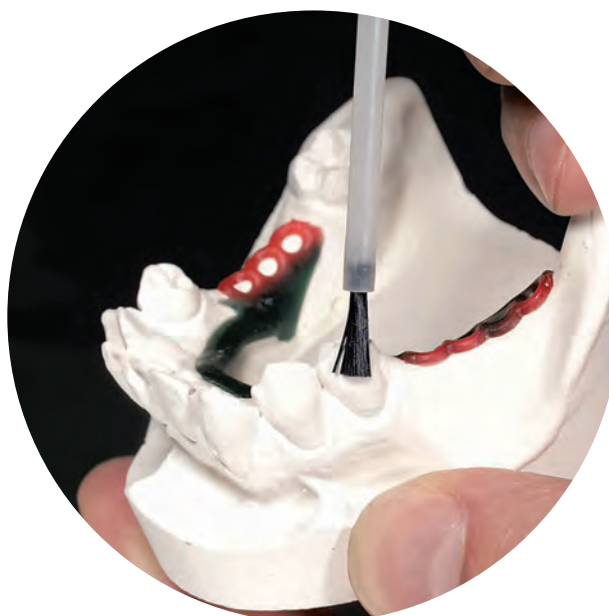
Item no.	Unit
926301	500 ml
926302	5 litres

SHERAMODELLHAFTGRUND

Model adhesive

- colourless
- improves the adhesion of wax to
- the surface of the investment model

Item no.	Unit
709132	30 ml bottle with brush

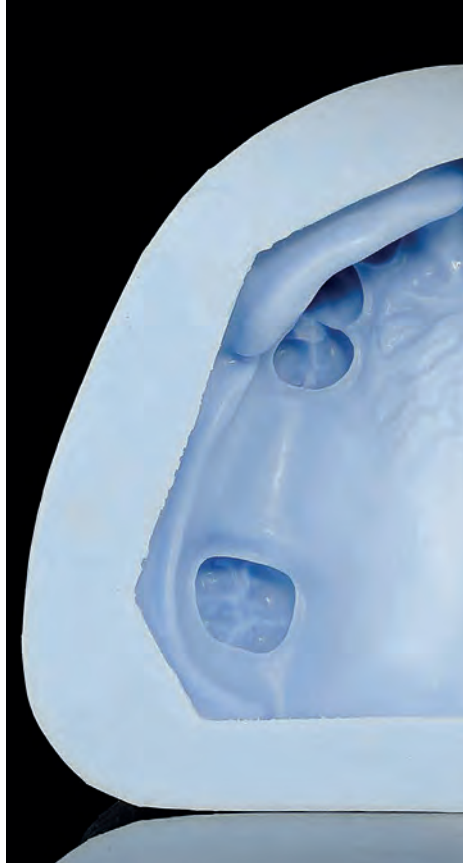




Silicone duplicating materials

The addition cure duplicating silicones of the DUOSIL range of SHERA distinguish themselves by a high tear-resistance and outstanding recovery of the material. The silicone moulds of DUOSIL can reliably be poured out several times.

These bottles are compatible with many commercial silicone dispensing devices. However, we recommend dosing the silicones by hand.



DUOSIL S

Shore hardness A 9

- colour: royal blue
- very soft and elastic
- setting time: 20 minutes
- especially suitable for thin dies

DUOSIL H

Shore hardness A 17

- colour: blue
- soft and elastic
- setting time: 20 minutes
- even for models with undercut thin dies
- yields to the expansion of the investment

DUOSIL D

Shore hardness A 22

- colour: turquoise
- medium hardness
- setting time: 20 minutes
- for a quick recovery
- even suited to dies for the galvano technique

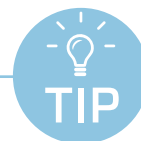
Item no.	Unit
321140	2 x 1 kg

Item no.	Unit
321040	2 x 1 kg
321041	2 x 5 kg

Item no.	Unit
321010	2 x 1 kg
321011	2 x 5 kg

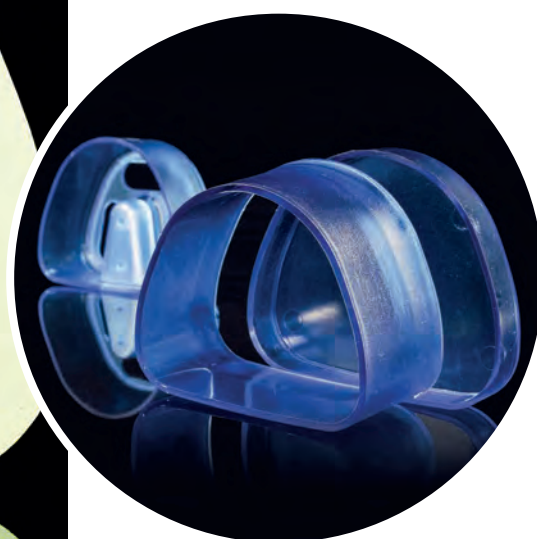


Silicone duplicating materials



SHERARELAXA

Improves the flow properties of stones / plasters in case of alginate, polyether, silicone as well as persulfide impressions - for bubble-free models. You may find on page 32.



DUOSIL EXPRESS

Shore hardness A 22

- colour: yellow
- medium hardness
- shortened setting time: 9 minutes
- due to the shortened reaction time it is essential to mix by hand
- enables fast working
- for stones and investments

Item no.	Unit
321100	2 x 1 kg
321101	2 x 5 kg

DUOSIL EXTRA HART

Shore hardness A 32

- colour: lime green
- great hardness
- setting time: 20 minutes
- especially suitable for the acrylic technique
- slightly oily
- very fast recovery

Item no.	Unit
321070	2 x 1 kg

DUPLICATING FLASK

- suitable for silicone and gel technique
- anchorage due to tapered sleeve part

Item no.	Unit
922120	1 piece (four-piece)



Duplicating Gels

SHERA duplicating gels distinguish themselves by an exact duplication. They can be heated conventionally or in a microwave are reusable and biodegradable. Their varied

elasticity makes them suitable for different applications in the laboratory.



SHERAGEL

Duplicating gel for acrylic casting technique

- colour: red
- for acrylic casting technique in denture prosthetics
- for chrome cobalt models and prosthetics
- strong duplicating gel

Item no.	Unit
322020	6 kg bucket

SHERAHYDROKOL

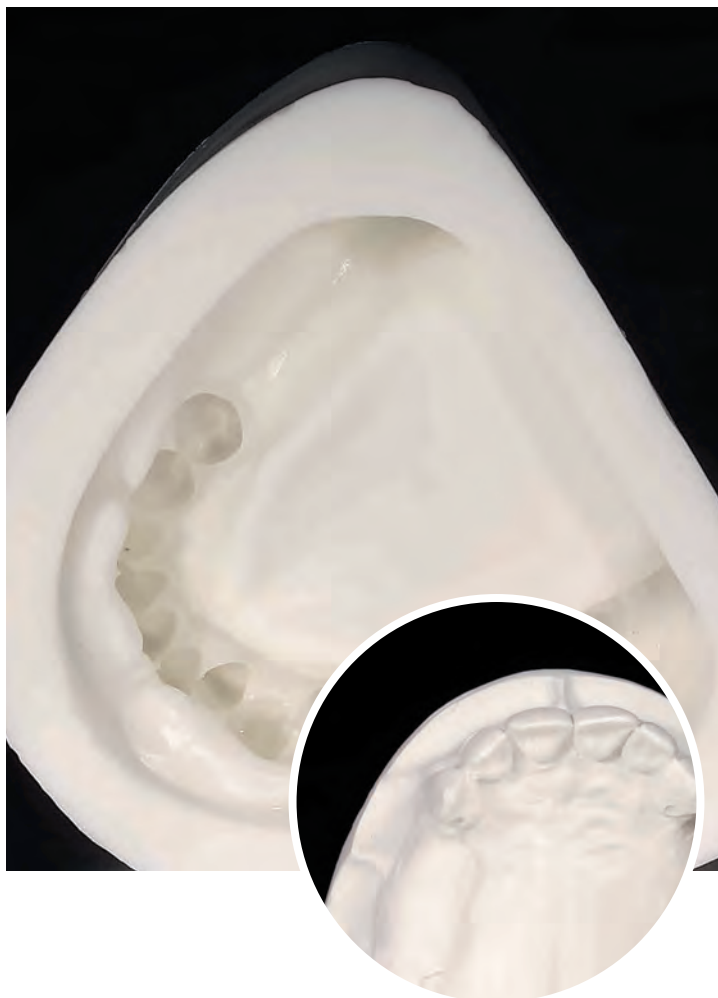
Special duplicating gel for stone / plaster models

- colour: beige
- firm duplicating material
- fast and economical

Item no.	Unit
322040	6 kg bucket



Duplicating Gels



SHERAFORM

Duplicating gel for investment

- colour: white
- extremely strong duplicating material
- for very smooth and dense surfaces similar to those of silicone moulds
- excellent elastic recovery
- very tear-resistant
- long working life

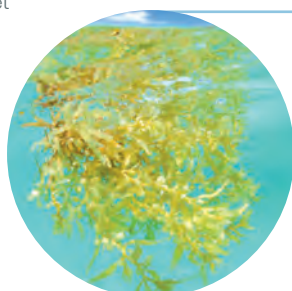
Item no.	Unit
322030	6 kg bucket

SHERADUBLE

Duplicating gel for investment

- colour: green
- elastic duplicating gel
- excellent price-performance ratio

Item no.	Unit
322010	6 kg bucket



Agar-Agar instead of silicone: Take care of the environment and save money

Duplicating gels are an environmentally friendly alternative to silicones. Agar-Agar is a renewable raw material. The duplicating materials based on alga extracts have a long life span, are of multiple use and biodegradable. Using this duplicating gels you protect the environment and save money in one step!



TIP





Alloys

SHERA alloys are high-quality alloys with ideal technical properties. They melt homogeneously with an excellent capability to flow and are very easy to work on. The excellent surface quality guarantees a perfect gloss.

According to DIN EN ISO 22674 all SHERA alloys are free of nickel, beryllium as well as cadmium and distinguish themselves by highest purity. As CE marked medical devices they are subject to permanent control and stringent quality requirements.



SHERA HEAVY-METAL



Product video



Continuous casting

- universal top quality alloy of SHERA
- for combination works and clasp dentures
- high strength and stiffness
- suitable for laser welding
 - alloy type 5
- medical device of class IIa

Item no.	Unit
401073	1000 g

Composition in %

Chrome	28
Cobalt	64
Molybdenum	6
further elements below 1%	C, Fe, Mn, Si, Nb, N

Technical data

vickers hardness (HV 1)	360
density (g/cm ³)	8.2
tensile strength (N/mm ²)	800
0.2-yield strength (N/mm ²)	650
elongation limit A ₅ (%)	5
modulus of elasticity (N/mm ²)	220,000
liquidus point (°C)	1,400
solidus point (°C)	1,270
casting temperature (°C)	1,500



Model Casting Alloys

The model casting alloys of SHERA are all-purpose alloys. The programme includes alloys with extreme spring stiffness as well as especially elastic alloys



SHERANAXOS

Continuous casting

- optimal for combination dentures
- slightly increased elasticity
- suitable for laser welding
- alloy type 5
- medical device of class IIa

Item no.	Unit
401063	1000 g

Technical data

Vickers hardness (HV 10)	390
density (g/cm ³)	8.3
tensile strength (N/mm ²)	761
0.2-yield strength (N/mm ²)	609
elongation limit A ₅ (%)	6
modulus of elasticity (N/mm ²)	200,000
liquidus point (°C)	1,400
solidus point (°C)	1,340
casting temperature (°C)	1,450

Composition in %

Chrome	31
Cobalt	62
Molybdenum	5
further elements below 1%	C, Fe, Mn, Si



SHERALIT-IMPERIAL

Continuous casting

- proven top quality
- for removable partial and combination dentures
- suitable for laser welding
- alloy type 4
- medical device of class IIa

Item no.	Unit
401013	1000 g

Technical data

Vickers hardness (HV 1)	350
density (g/cm ³)	8.3
tensile strength (N/mm ²)	669
0.2-yield strength (N/mm ²)	379
elongation limit A ₅ (%)	12
modulus of elasticity (N/mm ²)	222,000
liquidus point (°C)	1,406
solidus point (°C)	1,338
casting temperature (°C)	1,560

Composition in %

Chrome	28
Cobalt	64
Molybdenum	6,0
further elements below 1%	C, Fe, Mn, Si, Ni



SHERALIT-CYLINDRA

Continuous casting

- universal alloy
- favourable price-performance ratio
- suitable for laser welding
- alloy type 4
- medical device of class IIa

Item no.	Unit
401043	1000 g

Technical data

Vickers hardness (HV 10)	340
density (g/cm ³)	8.3
tensile strength (N/mm ²)	675
0.2-yield strength (N/mm ²)	441
elongation limit A ₅ (%)	9
modulus of elasticity (N/mm ²)	197,000
liquidus point (°C)	1,400
solidus point (°C)	1,350
casting temperature (°C)	1,600

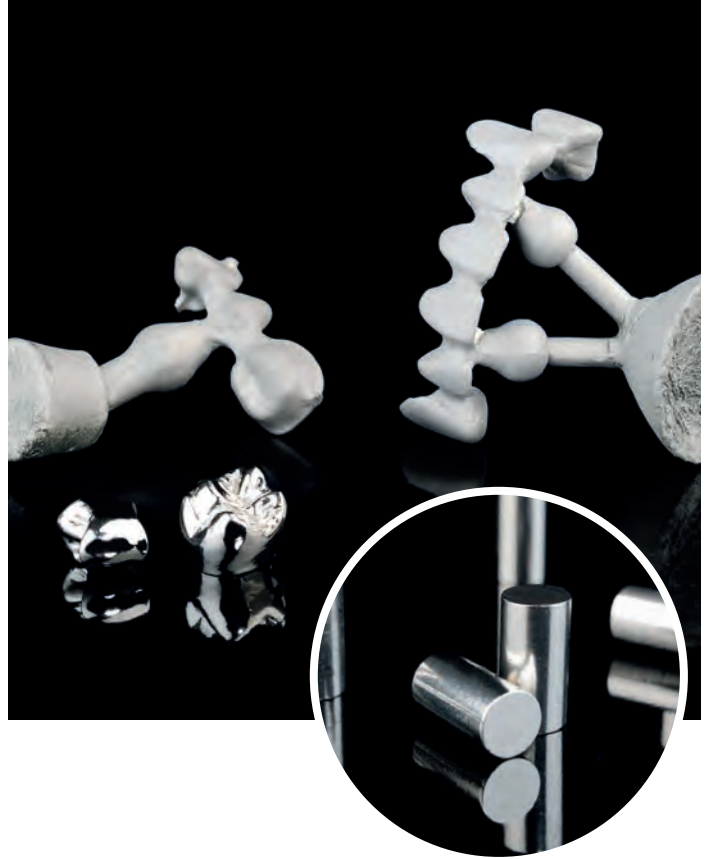
Composition in %

Chrome	29
Cobalt	63
Molybdenum	6
further elements below 1%	C, Fe, Si, Mn



Crown and Bridge Alloys

SHERA crown and bridge alloys bond very well with ceramics, are suitable for laser welding and distinguish themselves by their ideal hardness.



SHERADENT

Non-precious bonding alloy top quality

- very high value cobalt chrome alloy
- long approved quality
- coefficient of expansion: $14.6 \times 10^{-6} \text{ K}^{-1}$
- suitable for laser welding
- alloy type 5
- medical device of class IIa

Item no.	Unit
402020	100 g
402021	250 g
402023	1000 g

Technical data

Vickers hardness (HV 10)	286
density (g/cm^3)	8.8
tensile strength (N/mm^2)	734
0.2-yield strength (N/mm^2)	570
elongation limit A_5 (%)	10
modulus of elasticity (N/mm^2)	194,000
liquidus point ($^{\circ}\text{C}$)	1,417
solidus point ($^{\circ}\text{C}$)	1,309
casting temperature ($^{\circ}\text{C}$)	1,520
WAK (25-600 $^{\circ}\text{C}$)	$14.6 \times 10^{-6} \text{ K}^{-1}$

Zusammensetzung in %

Chrom	21
Kobalt	64
Molybdän	6
Wolfram	6
weitere Elemente unter 1 %	Fe, Mn, Si

SHERAALLOY-NP

Non-precious bonding alloy

- high value cobalt chrome alloy
- very good price-performance ratio
- coefficient of expansion: $14.0 \times 10^{-6} \text{ K}^{-1}$
- suitable for laser welding
- alloy type 5
- medical device of class IIa

Item no.	Unit
402140	100 g
402141	250 g
402143	1000 g

Technical data

Vickers hardness (HV 10)	280
density (g/cm^3)	8.3
0.2-yield strength (N/mm^2)	550
elongation limit A_5 (%)	10
modulus of elasticity (N/mm^2)	210,000
liquidus point ($^{\circ}\text{C}$)	1,370
solidus point ($^{\circ}\text{C}$)	1,310
casting temperature ($^{\circ}\text{C}$)	1,430
WAK (25-600 $^{\circ}\text{C}$)	$14.0 \times 10^{-6} \text{ K}^{-1}$

Zusammensetzung in %

Chrom	24
Kobalt	63
Wolfram	8.1
Molybdän	2.9
Silicium	1.1
weitere Elemente unter 1 %	Nb



Soldering / Lasing

SHERALOT-N

Solder bar

- for all non-precious alloys
- all-purpose
- can be fused
- medical device of class IIa

Item no.	Unit
934131	8 bars (approx. 5 g)



SHERAFLUX NE

Soldering flux

- for high fusing solder
- colour: white
- due to its colour it contrasts well with the soldering object
- does not glare during soldering
- prevents the formation of an oxide layer
- optimises solder connection

Item no.	Unit
934221	50 ml



HEAT SHIELDING AND ISOLATING PASTE

Heat protection and isolating paste

- asbestos free
- protects all acrylics, ceramics and metals against damage caused by heat while soldering
- can be applied easily and selectively
- odourless, does not generate any fumes
- can be rinsed off without residue

Item no.	Unit
934231	235 g tube

LASER WELDING WIRES

Welding wire

- for all non-precious alloys
- for chrome casting alloys
- can be fused
- medical device of class IIa

Item no.	Unit
934311	2 metre roll (ø 0.35 mm)
934321	2 metre roll (ø 0.5 mm)

Preparation for Ceramic Works and Polishing



SHERADAN

Polishing electrolyte

- for brilliant shiny metal surfaces
- quick acting

Item no.	Unit
709050	1 litre

FRAME CLEANER

Ready for use liquid for cleaning and degreasing

- for sandblasting chromes before firing
- intensive effect
- prevents the formation of bubbles in the ceramic

Item no.	Unit
702205	500 ml





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Brushes



Abrasives

SHERA abrasives are of highest quality standard and degree of purity possible. The hygroscopic abrasives are protected from moisture and packed in handy 5 kg bags. The SHERASTRAHLKORUND is delivered in 25 kg boxes.



SHERASTRAHLKORUND

95 % aluminium oxide

- colour: brown
- graining: 250 µm
- for sandblasting of chrome castings
- very hard and sharp-edged
- removes rests of investments quickly

Item no.	Unit
601011	25 kg



SHERAALUMINIUMOXID

99.7 % aluminium oxide

- colour: white

Graining:

250 µm	for chrome castings
150 µm	for precious or non-precious alloy
110 µm	for precious or non-precious alloy
50 µm	for precious alloy or ceramic

Item no.	Unit
603010 (250 µm)	5 kg or 20 kg (4 x 5 kg)
602040 (150 µm)	5 kg or 20 kg (4 x 5 kg)
602030 (110 µm)	5 kg or 20 kg (4 x 5 kg)
602020 (50 µm)	5 kg or 20 kg (4 x 5 kg)



Abrasives

SHERAGLANZSTRAHLPERLEN

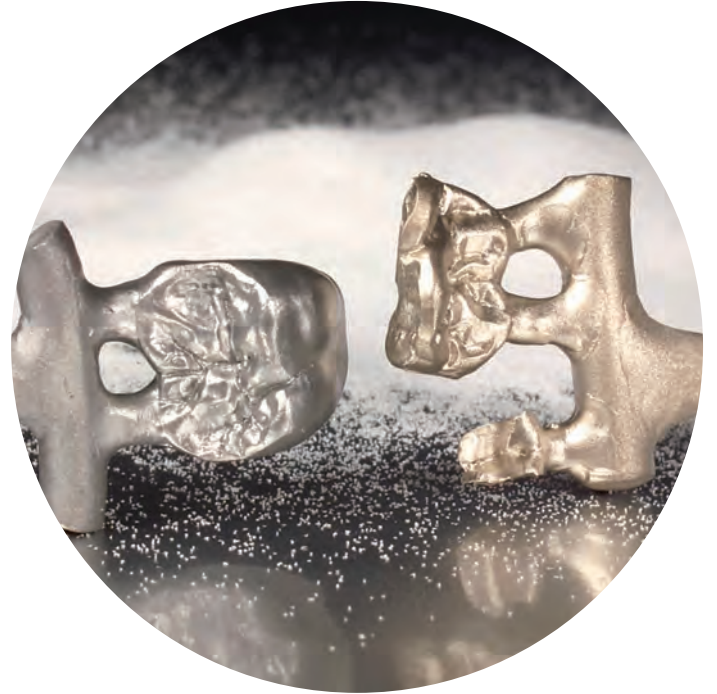
Glass polishing beads

- made of lead free sodium glass
- for compressing, smoothing and polishing of metal surfaces
- non-abrasive

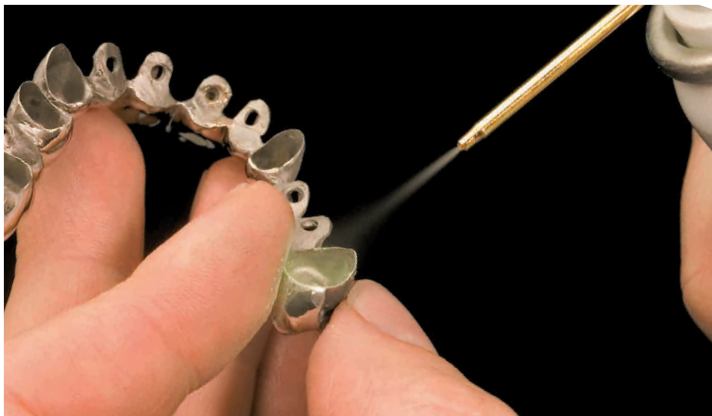
Graining:

- 125 µm for non-precious alloys
- 50 µm for precious, reduced and non-precious alloys

Item no.	Unit
604030 (125 µm)	5 kg or 20 kg (4 x 5 kg)
604020 (50 µm)	5 kg or 20 kg (4 x 5 kg)



Occlusion Sprays



OKKLU-EXACT

Occlusion spray

- with very fine metal nozzle
- very homogeneous micro powder layer
- contact points can be marked exactly
- does not smear or flake
- can easily be washed or steam cleaned off
- free of solvents, grease or CFC
- can be used as spray for scanning
- medical device of class I

Item no.	Unit
914201 (green)	75 ml spray can

CONTACTSPRAY

Occlusion spray

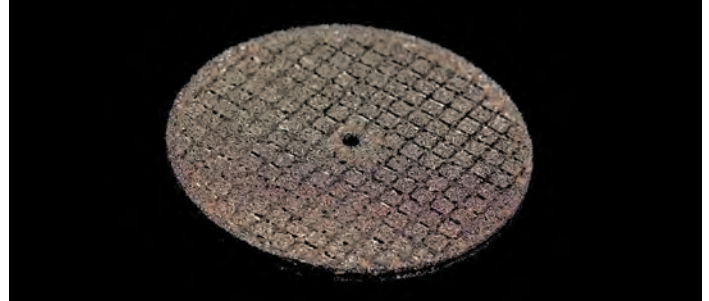
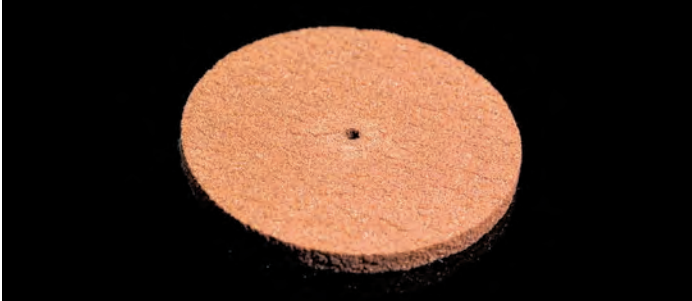
- homogeneous micro powder layer
- contact points can be marked exactly
- does not smear or flake
- can easily be washed or steam cleaned off
- free of solvents, grease or CFC
- medical device of class I

Item no.	Unit
914101 (green)	75 ml spray can



Cutting discs

STANDARD LINE



GRINDING DISCS

- 37 x 3.0 mm
- ⌚ 10,000

Item no.	Unit
970206	25 pieces

CUTTING DISCS

- 40 x 0.8 mm
- for steel and non-precious metal
- reinforced with nylon mesh
- long service live
- ⌚ 35,000

Item no.	Unit
970205	10 pieces

ECO-LINE

CUTTING DISCS

- for all alloys
- glass-fibre reinforced
- good price-performance ratio

- 22 x 0.2 mm
- ⌚ 50,000

Item no.	Unit
970151	50 pieces

- 26 x 0.3 mm
- ⌚ 50,000

Item no.	Unit
970253	25 pieces

- 22 x 0.3 mm
- ⌚ 50,000

Item no.	Unit
970153	50 pieces

- 26 x 0.5 mm
- ⌚ 50,000

Item no.	Unit
970254	25 pieces

- 22 x 0.5 mm
- ⌚ 50,000

Item no.	Unit
970155	25 pieces

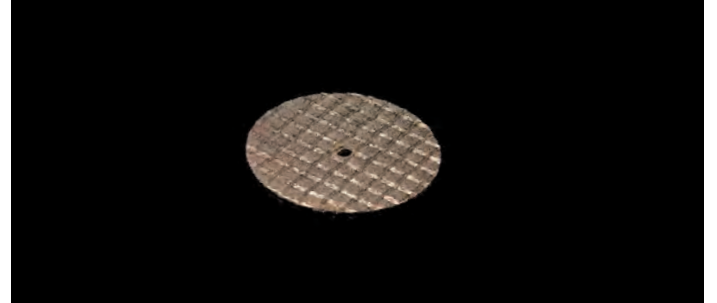
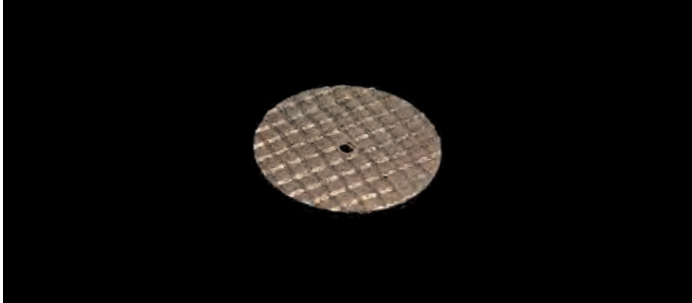
- 40 x 0.5 mm
- ⌚ 38,200

Item no.	Unit
970255	10 pieces



Cutting Discs

ECO-LINE



DIAMOND CUTTING DISCS

- for ceramic
- glass-fibre reinforced
- high cutting performance
- 20 x 0.25 mm
- ⤵ 50,000

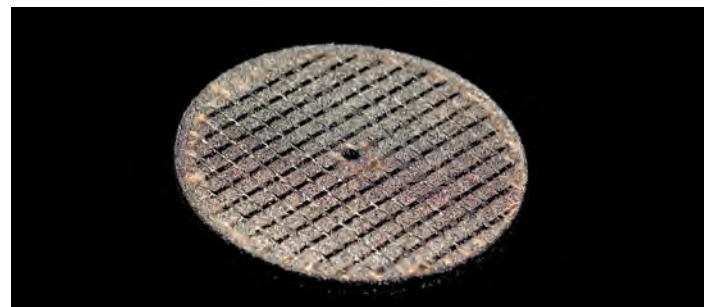
Item no.	Unit
970161	10 pieces

DIAMOND CUTTING DISCS

- for ceramic
- glass-fibre reinforced
- high cutting performance
- 20 x 0.3 mm
- ⤵ 50,000

Item no.	Unit
970163	10 pieces

HIGH-LINE



CUTTING DISCS FIBRE REINFORCED

- 22 x 0.3 mm
- for non-precious metal, gold and ceramic
- very flexible
- extreme long service life
- ⤵ 35,000

Item no.	Unit
970110	50 pieces

CUTTING DISCS FIBRE REINFORCED

- 40 x 1.0 mm
- for chrome casting and non-precious metal
- improved quality with increased cutting power
- low heat development
- extreme long service life
- ⤵ 35,000

Item no.	Unit
970210	10 pieces



Polishers

Our recommended areas of application are characterized by the following colours:



SHERA polishers can be used individually and in many ways.



WHEEL WHITE

Silicone polisher
 - 22 x 3 mm
 - pre-polishing
 - \approx 20,000
 - fine-grained, soft

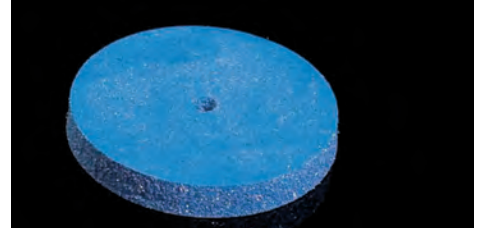
Item no.	950101	Areas of application
Unit	100 pieces	



WHEEL WHITE

Silicone polisher
 - 22 x 3 mm
 - pre-polishing
 - \approx 7,000 - 10,000
 - coarse-grained, hard

Item no.	950113	Areas of application
Unit	100 pieces	



WHEEL BLUE

Silicone polisher
 - 22 x 3 mm
 - pre-polishing, ideally suited for the junction ceramic-metal
 - \approx 20,000
 - medium-grained

Item no.	950110	Areas of application
Unit	100 pieces	



WHEEL GREY

- 22 x 3 mm
 - pre-polishing of titanium materials
 - \approx 20,000
 - medium-grained

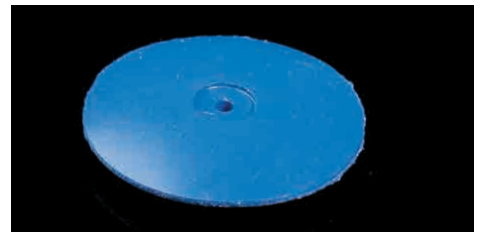
Item no.	950307	Areas of application
Unit	25 pieces	



LENS WHITE

Silicone polisher
 - 22 x 3 mm
 - pre-polishing
 - \approx 7,000 - 10,000
 - coarse-grained

Item no.	950102	Areas of application
Unit	100 pieces	



LENS BLUE

Silicone polisher
 - 22 x 3 mm
 - pre-polishing, ideally suited for the junction ceramic-metal
 - \approx 20,000
 - medium-grained

Item no.	950111	Areas of application
Unit	100 pieces	



ROLLER WHITE

Silicone polisher
 - \varnothing 6 mm
 - pre-polishing
 - \approx 20,000
 - fine-grained, soft

Item no.	950103	Areas of application
Unit	100 pieces	



ROLLER WHITE

Silicone polisher
 - \varnothing 7 mm
 - pre-polishing
 - \approx 7,000 - 10,000
 - coarse-grained, hard

Item no.	950114	Areas of application
Unit	100 pieces	



ROLLER BLACK

Silicone polisher
 - \varnothing 6 mm
 - pre-polishing
 - \approx 20,000
 - medium-grained

Item no.	950107	Areas of application
Unit	100 pieces	



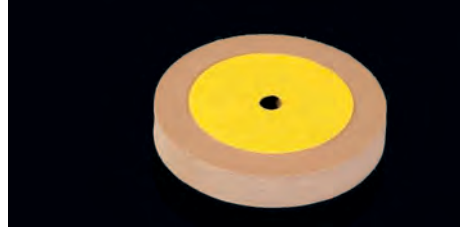
Polishers



ZIRCONIA POLISHERS GREEN

Diamond polishers
- 17 x 2,5 mm
- pre-polishing
- \cup 7,000 - 10,000
- medium-grained

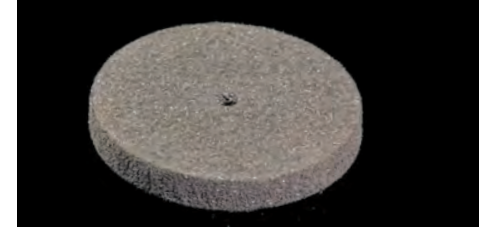
Item no.	950501	Areas of application
Unit	1 piece	



ZIRCONIA POLISHERS BROWN

Diamond polishers
- 17 x 2,5 mm
- precision polishing
- \cup 7,000 - 10,000
- fine-grained

Item no.	950502	Areas of application
Unit	1 piece	



WHEEL BLACK

Silicone polisher
- 22 x 3 mm
- pre-polishing
- \cup 20,000
- medium-grained

Item no.	950106	Areas of application
Unit	100 pieces	



INTERDENTAL RUBBER GREEN

- 22 x 1 mm
- precision polishing
- \cup 10,000
- fine-grained

Item no.	950304	Areas of application
Unit	25 pieces	



OCCLUSAL POLISHER RED

- \emptyset 3 mm
- precision polishing
- \cup 20,000
- medium-grained

Item no.	950305	Areas of application
Unit	100 pieces	



OCCLUSAL POLISHER BROWN

- \emptyset 3 mm
- pre-polishing
- \cup 20,000
- coarse-grained

Item no.	950109	Areas of application
Unit	100 pieces	



ROLLER GREEN

- \emptyset 6 mm
- precision polishing
- \cup 10,000
- fine-grained

Item no.	950303	Areas of application
Unit	100 pieces	



ROLLER RED

- \emptyset 6 mm
- pre-polishing
- \cup 15,000
- extra coarse-grained

Item no.	950104	Areas of application
Unit	100 pieces	



ROLLER BROWN

- \emptyset 7 mm
- precision polishing
- \cup 20,000
- coarse-grained

Item no.	950302	Areas of application
Unit	100 pieces	



Polishing Agents

SHERA polishing agents contain neither quartz nor cadmium and achieve a brilliant high-lustre finish in no time at all. The polishing agents do not smear and remove black residues

from the metal surfaces. We offer a perfectly matching polishing agent for all dental appliances surfaces.



SHERAPOL 701

Pre- and high-lustre polishing paste

- colour: green
- for all alloys, ceramics and composites
- especially for gold and titanium
- very fast and efficient
- for an excellent shine

Item no.	Unit
954101	approx. 300 g bar

SHERAPOL 704

Pre- and high-lustre polishing paste

- colour: pink
- for all alloys
- especially for chrome and non-precious alloys
- saves polishing time
- very economic
- for an excellent shine

Item no.	Unit
954104	approx. 300 g bar

SHERAPOL 705

Universal polishing paste

- colour: white
- for all alloys, acrylics and ceramics
- polishes chrome dentures in one step

Item no.	Unit
954105	approx. 300 g bar

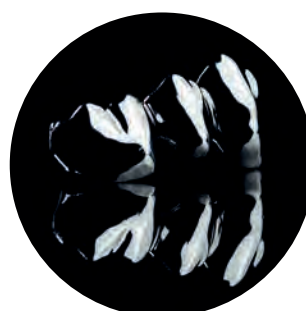


SHERAPOL-RESIN

High-lustre polishing paste

- colour: white
- for all acrylics and composites
- excellent high-lustre in short time
- fast and economic

Item no.	Unit
954110	ca. 100 g bar



SHERAMETAL-SHINE

High-lustre polishing paste

- colour: grey
- for all non-precious dental alloys even for telescopic and attachment works
- high gloss in one working step from pre-polishing to superfinishing
- economic in use
- adheres well to the polishing brush

Item no.	Unit
954235	20 g



SHERA GLAMOUR

The diamond polishing paste. Let it shine.

Whether made of zirconium, press ceramic, non-precious metal ceramic – your dental work looks brilliant after finishing with SHERAGLAMOUR. Thanks to the different grain sizes of the diamond powder in SHERAGLAMOUR, polishing from coarse to fine succeeds quickly in one process without removing material noticeably. Show off your skills and shine. Glam as you can!

Item no.	Unit
954231	20 g

- High gloss in one working step from pre-polishing to superfinishing to remove milling grooves and other contours and scratches
- no glazing necessary
- economic in use
- especially effective with goat's hair brushes
- good adhesion to the polishing brush





Polishing agents



SHERABIMBSSTEINPULVER

- for pre-polishing of acrylics and ceramics
- medium-grained

Item no.	Unit
954310	5 kg bucket
954311	22.5 kg

SHERABIMFLUID AB

- Mixing liquid for pumice powder
- protects hands from drying out
 - pleasant smell
 - oily consistency
 - can be diluted with water

Item no.	Unit
709100	1 litre
709101	5 litres



SHERALUX 711

High-lustre polishing emulsion

- colour: pink
- for acrylics and alloys
- brilliant high-lustre finish in short time
- seals surfaces
- economic in use

Item no.	Unit
954212	500 g bottle



SHERALUX 715

High-lustre polishing cream

- colour: pink
- for acrylics and alloys
- brilliant high-lustre finish in short time
- seals surfaces
- removes small scratches from the acrylic
- economic in use

Item no.	Unit
954215	300 g can



SHERABIMSPASTE

Polishing paste

- pleasant smell
- for pre-polishing of acrylics

Item no.	Unit
954301	5 kg bucket



Brushes

CHUNGKING BRISTLES



65 mm

2-row brush

- for polishing of crown, bridge and chrome works
- very hard, short and pointed

Item no. 910101

Unit 1 piece



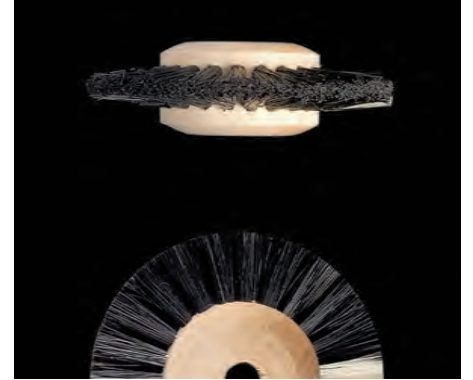
50 mm

2-row brush

- for polishing of crown, bridge and chrome works
- pointed

Item no. 910202

Unit 1 piece



50 mm

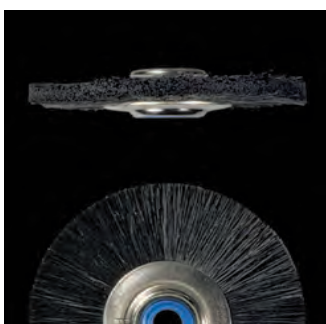
2-row brush with wooden hub

- for polishing of acrylics and metals
- pointed

Item no. 910207

Unit 1 piece

CHUNGKING BRISTLES



48 mm

Slim brush

- for polishing of crown, bridge and chrome works
- black

Item no. 910209

Unit 1 piece



45 mm

Bürste 1-row

- especially suitable for polishing of interdental spaces
- for final polishing of fine contours of acrylic dentures
- black

Item no. 910205

Unit 1 piece



48 mm

Slim brush

- ideally suited for polishing of the interface
- between acrylic and metal
- mottled

Item no. 910211

Unit 1 piece



48 mm

Slim brush

- for polishing of acrylics
- white

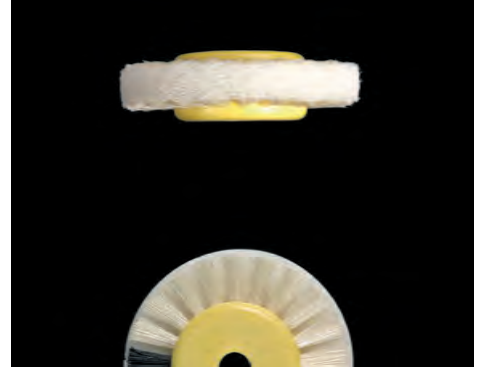
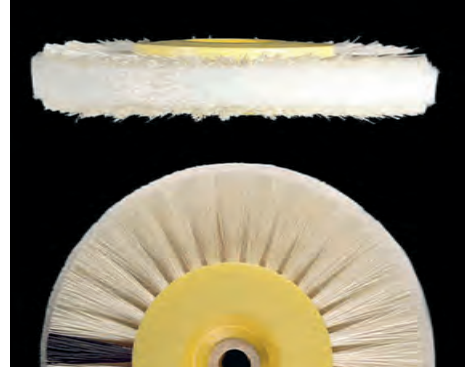
Item no. 910210

Unit 1 piece



Brushes

SPECIAL LINING



80 mm

5-ply brush

- for pre-polishing of acrylic
- chunking bristles with special tissue and special textile lining
- special lining save pumice powder for a quick polishing
- for the rational high-lustre polishing of all prostheses (PMMA) and composites
- high polishing effectiveness

80 mm

3-ply brush

- for pre-polishing of acrylic
- chunking bristles with special textile lining
- special lining save pumice powder for a quick polishing
- for the rational high-lustre polishing of all prostheses (PMMA) and composites

45 mm

3-ply brush

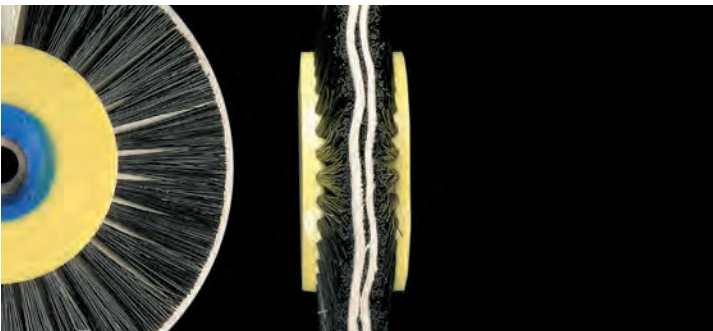
- for pre-polishing of acrylic
- chunking bristles with special textile lining
- special lining save pumice powder for a quick polishing
- for the rational high-lustre polishing of all prostheses (PMMA) and composites

Item no.	910105
Unit	1 piece

Item no.	910104
Unit	1 piece

Item no.	910201
Unit	1 piece

NETTLE CLOTH LINING



80 mm

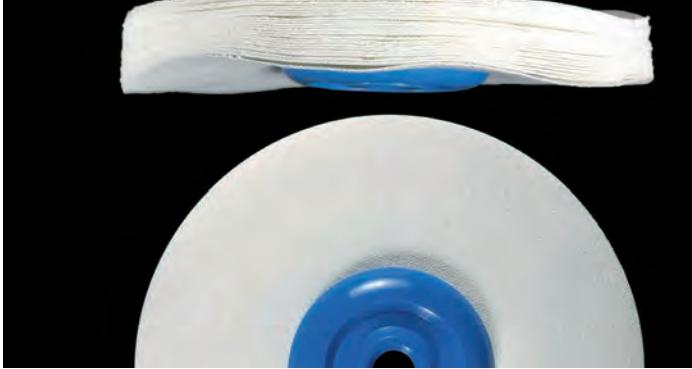
5-ply brush

- for pre-polishing of acrylic
- chunking bristles
- with nettle cloth lining

Item no.	910102
Unit	1 piece



Buffer & Hand piece brushes



NETTLE CLOTH BUFFER 100 mm

cotton, 24-layers

- for high-lustre polishing of metal and acrylic

Item no. 910402
Unit 1 piece

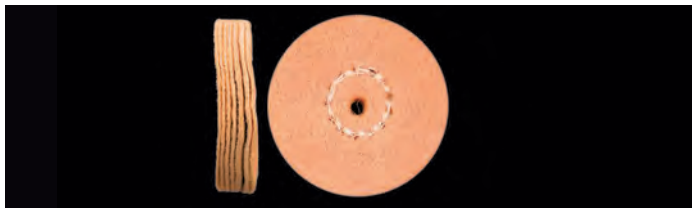


POLISHING NETTLE CLOTH BUFFER 100 mm

ZETA-tissue, 15-layers

- for high-lustre polishing of metal and acrylic
- high-value special tissue
- no fraying out

Item no. 910405
Unit 1 piece



FELT BRUSH HP ORANGE 22 mm

Hand piece brush, pre-polishing

- for pre-polishing acrylic and composite
- to be used without polishing paste
- maintains the material structures
- medium-grained
- 22 x 3 mm
- ∪ 5,000 - 7,000

Item no. 910318
Unit 6 pieces



FELT BRUSH HP PINK 22 mm

Hand piece brush, high-lustre polishing

- for high-lustre polishing acrylic and composite
- to be used without polishing paste
- maintains the material structures
- fine-grained
- 22 x 3 mm
- ∪ 5,000 - 7,000

Item no. 910317
Unit 6 pieces



CHUNGKING BRISTLE HS 19 mm

Hand piece brush

- unmounted
- black
- ∪ 10,000

Item no. 910306 (ø 19 mm)
Unit 12 pieces



HORSE'S HAIR HS 19 mm

Hand piece brush

- unmounted
- mottled
- ∪ 10,000

Item no. 910315 (ø 19 mm)
Unit 12 pieces



GOAT'S HAIR HS 16 mm / 19 mm

Hand piece brush

- unmounted
- white
- ∪ 10,000

Item no. 910302 (ø 16 mm)
910307 (ø 19 mm)
Unit 12 pieces



NETTLE CLOTH BUFFER HS 19 mm

Hand piece brush

- unmounted
- ∪ 8,000 - 12,000

Item no. 910304 (ø 19 mm)
Unit 12 pieces



Acrylics

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Denture
Acrylics

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Orthodontic
Acrylic

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Isolating
Agents

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Tray
Materials



Denture acrylics

The outstanding quality of SHERA acrylics has proven itself over many years. They are based on methyl methacrylate, are cadmium free and are very compatible. SHERA acrylics

are matched so that heat cure dentures can be completed or repaired by cold cure acrylic.



SHERAPRESS

Cold cure acrylic

- for dough and casting technique
- for the production of partial, repair and total dentures
- especially low shrinkage
- malleable phase of approx. 3 minutes
- medical device of class IIa

Item no.	Unit
502010 (pink)	1 kg
502020 (pink opaque)	
502030 (clear)	
502040 (pink veined)	
502050 (pink transparent veined)	

LIQUID for SHERAPRESS

Item no.	Unit
508020	500 ml
508021	1000 ml

SHERAPRESS-FLEX

Cold cure acrylic

- for dough and casting technique
- for the production of partial, repair and total dentures
- especially low shrinkage
- malleable phase of approx. 20 minutes
- medical device of class IIa

Item no.	Unit
502060 (pink)	1 kg

LIQUID for SHERAPRESS-FLEX

Item no.	Unit
508030	500 ml



Denture acrylics



SHERADON

Heat cure acrylic

- for press and injection technique
- for the production of partial, repair and total dentures
- especially low shrinkage
- malleable phase of approx. 20 minutes
- medical device of class IIa

Item no.	Unit
501010 (pink)	1 kg
501020 (pink veined)	
501030 (pink transparent veined)	

SHERAFINISH

Acrylic denture cleaner

- for finishing dentures
- cleans acrylic dentures
- binds any traces of residual monomer
- gives a great shine to the appliance and leaves a pleasant, fresh taste
- medical device of class I

Item no.	Unit
990101	75 ml spray can

LIQUID for SHERADON

Item no.	Unit
508010	500 ml



Smoother and more aesthetic acrylic surfaces

Applying the SILICONE SPRAY on the overbite you will achieve even smoother and more aesthetic acrylic surfaces. At the same time, this rich spray serves for the maintenance of devices – a real allrounder! You find it on page 34.



Orthodontic Acrylic



SHERAORTHOMER

Cold cure acrylic

- for dough and sprinkle technique
- for orthodontic appliances
- hardens homogeneously
- very durable
- exceptionally stable
- medical device of class IIa

Item no.	Unit
504010	1 kg

LIQUID for SHERAORTHOMER

Item no.	Unit
508050 (klar)	500 ml

Isolating Agent



SHERATEC

Separating agent based on alginate

- colour: colourless
- separates stone / plaster against acrylic
- is absorbed completely by the stone / plaster
- very thin separating film
- formaldehyde and silicone free

Item no.	Unit
701066	500 ml



Orthodontic Plasters



The corresponding orthodontic plasters are presented on page 23. Just rely on high quality directly from the manufacturer!



Tray Materials

LIGHT CURE TRAY MATERIAL

Tray material

- pre-formed sheets
- for production of individual trays
- easy to adapt
- highly dimensionally stable
- medical device of class I

Item no.	Unit
505081 (blue opaque)	50 sheets
505082 (blue transparent)	
505083 (pink opaque)	
505084 (pink transparent)	
505085 (natural coloured)	

SHERATRAY

Tray material

- for the production of individual trays
- for base plates for bite registration
- for try-ins
- easy to mix and to process
- tear-resistant, highly dimensionally stable
- medical device of class I

Item no.	Unit
505010 (blue)	1 kg
505030 (yellow)	
505040 (green)	
505050 (white)	

LIQUID for SHERATRAY

Item no.	Unit
508080	500 ml



SHERALÖFFEL-FLUID

Cleaning fluid for light-curing tray materials

- removes dispersion layer
- enhances the colour of the manufactured tray

Item no.	Unit
702225	500 ml



Miscellaneous

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Cleaning
Agents

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Skin
Care

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Brushes



Cleaning Agents



SHERASON 929

Alginate solvent, liquid, concentrated liquid

- cleans all trays, mixing bowls and tools
- does not corrode metal
- can be diluted 1:10 with water
- very economical in use

Item no.	Unit
702090	1 litre
702091	5 litres

SHERASON 927

Denture cleaner

- removes tartar and cements
- can be diluted 1:1 with water
- can be used with or without ultrasound
- very quick acting
- should only be used in a glass container with lid

Item no.	Unit
702070	1 litre



SHERAWAX-EX

Concentrate for boiling out wax

- especially developed for machines for boiling out waxes
- dissolves wax from models and devices
- very economic
- fresh citric fragrance
- biodegradable
- recommended mixing ratio 1:100

Item no.	Unit
702230	1 litre
702231	5 litres



Cleaning Agents



SHERASONIC

Environmentally friendly ultrasonic cleaner

- biodegradable
- for laboratory, surgery, office and household
- concentrate, can be diluted 1:10 with water
- cleans all materials
- especially effective
- does not corrode metal surfaces

Item no.	Unit
702100	1 litre
702101	5 litres

SHERASON 925

Ultra sonic cleaner

- for laboratory, surgery, office and household
- concentrate, can be diluted 1:10 with water
- cleans all materials
- especially effective
- does not corrode metal surfaces

Item no.	Unit
702050	1 litre
702051	5 litres



One for all

SHERASONIC is a concentrate which can be diluted ten times with water and cleans very effectively. You can use SHERASONIC not only in the ultrasonic bath, but also, as a universal cleaning agent – everything will be brightly cleansed in a very short time!



TIP



Skin Care



SHERACLEAN 50

Hand washing lotion for slight dirt

- mild cleansing and moisturising washing lotion
- with cosmetic detergent base material
- fresh fragrance of melon
- high quality moisturising agents provide a pleasant and soft feeling to the skin
- free of silicones, solvents and soap
- adjusted pH value of the skin
- dermatologically tested

Item no.	Unit
932112	5 litres



SHERACLEAN 100

Cream hand wash

- neutral fragrance
- colour: vanilla
- mild and nurturing
- moisturising
- phosphate and formaldehyde-free
- pH-neutral
- biodegradable

Item no.	Unit
932202	10 litres



SHERACLEAN 150

Cream hand wash for very dirty hands

- contains skin protecting special soft grub beads
- provides the skin with valuable moisturising substances
- fresh lemon fragrance
- contains aloe vera for the natural skin regeneration
- free of silicones, solvents and soap
- adjusted pH value of the skin
- dermatologically tested

Item no.	Unit
932301	2.5 litres
932302	5 litres

PUMP for 2.5 litres

bottle SHERACLEAN 150	Item no.	Unit
	992103	1 piece



SHERACARE

High-quality and rich skin care cream

- especially skin calming
- high lipid replenishing and moisturising effect
- containing high value care complex
- long-lasting effect
- quickly absorbed
- for all skin types
- dermatologically tested

Item no.	Unit
932410	50 ml airless dispenser



PROTECTODERM

Hand protection cream

- with aloe vera, jojoba oil and shea butter
- without silicones
- protects against acids, lyes, disinfectants, methacrylics, stones / plasters, ceramics, various solvents and adhesives
- frost-sensitive

Item no.	Unit
932402	1000 ml incl. pump



RED SABLE BRUSHES

Brushes for ceramic layering

- from fine, genuine red sable hair
- with a seamless silver ferrule

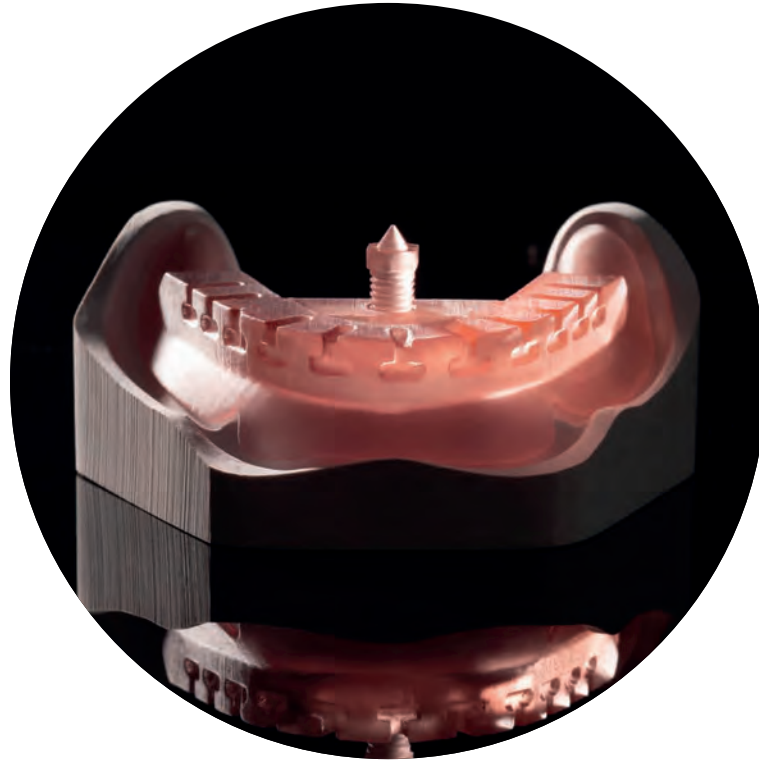
Item no.	Unit
946201 (size 1)	1 piece
946202 (size 2)	
946203 (size 3)	
946204 (size 4)	
946205 (size 5)	
946206 (size 6)	
946208 (size 8)	
946210 (size 10)	

OPAKER BRUSH

Kolinsky flat brush

Item no.	Unit
946302 (size 2)	1 piece





SHERAdigital

Whether you wish to combine analogue and digital techniques, or you consequently follow a digital workflow – SHERA offers a fully synchronised programme, as it is important to us to offer you a complete workflow for your laboratory.

Whether it is a scanner, milling machine or 3D printer, we support you. Get to a jump start and use the know-how of the SHERA teams. By doing so, our workflow saves you the arduous and time-consuming process of working out suitable parameters. You can get started right away.

We have focused on an open system for all components, allowing you to enter the modern CAD/CAM technology at any time and skill level whilst staying independent and flexible.



Scanning

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Scanner

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Software





Scanner

We offer two scanner models with different technical specification ranges, thereby relying on the experience and competence of Dental Wings, who have been our technology partner since we entered the field of CAD/CAM processing. The good experiences as well as the feedback from customers confirm this cooperative approach.





SHERAscan 7

Dental model and impression scanner

- output of open STL files
- laser technology
- integrated Windows PC, 64-bit, 500 GB SSD
- 2 measuring cameras, 1 colour video camera
- measuring accuracy: 15 µm
- scan volume: 140 x 140 x 140 mm
- simultaneous scanning and designing, parallel processing of multiple orders
- impression scan, virtual articulator and multi-die function for 30 dies included
- compatible with original scan bodies of various manufacturers
- individual fitting parameters can be stored
- provides space for own design ideas
- dimensions: 380 x 380 x 480 mm (W x H x D)
- weight: approx. 19 kg
- item no. SD101001

With the following software package orderable:

Gold Edition:

includes: crown and bridge designer, abutment and bar designer, virtual ModelBuilder

Item no.: SD108131

[The Gold Edition can be upgraded by further modules.](#)

Productivity Edition:

Includes: crown and bridge designer, abutment and bar designer, partial framework designer, virtual ModelBuilder,

Item no.: SD108140

[The Productivity Edition can be upgraded by further modules.](#)

Platinum Edition:

Includes: crown and bridge designer, abutment and bar designer, partial framework designer, virtual ModelBuilder, rapid prototyping, orthodontic archiving, splint designer, total prosthetics designer

Item no.: SD108132

[The SHERAscan 7 can also be supplied with the CoDiagnostoX programme. Just contact us in case of interest!](#)





SHERAscan 3

Dental model scanner

- output of open STL files
- laser technology
- integrated Windows PC, 64-bit, 250 GB SSD
- 1 measuring camera, 1 colour video camera
- measuring accuracy: 15 µm
- scan volume: 90 x 90 x 90 mm
- simultaneous scanning and designing, parallel processing of multiple tasks
- virtual articulator and multi-die function for 12 dies included
- compatible with original scan bodies of various manufacturers
- individual fitting parameters can be stored
- provides space for own design ideas
- dimensions: 345 x 330 x 445 mm (W x H x D)
- weight: approx. 15 kg
- item no.: SD101000

With the following software package orderable:

Gold Edition:

includes: crown and bridge designer, abutment and bar designer, virtual ModelBuilder

Item no.: SD108131

The SHERAscan 3 is available with additional software features. Just contact us in case of interest!

SHERAscanspray

- for optimal scan of the models
- for extraoral CAD/CAM application
- very fine atomised spray
- micro fine powder
- prevents the reflection of surfaces
- colour: white
- 200 ml spray can
- item no.: SD802000





Technical data scanner

✓ included
+ upgrade



Scanner specifications

	SHERAscan 7	SHERAscan 3
Scanner including software package	✓	✓
Scan-Scanning speed: single die	25 seconds	25 seconds
Scanning speed: 3 part bridge	100 seconds	100 seconds
Multi-die scan	✓	✓
Number of dies in multi-die mode	30	12
Completely automatic scanning and designing in Multi-Die mode	✓	✓
Duration in the case of complete mounting	12	8
Antagonist, initial preparation scan	✓	✓
Cameras	3 cameras	2 cameras
Accuracy	15 µm	15 µm
Impression-Scan	✓	-
Import of intraoral scans	✓	✓

Upgraded applications for basic version

	SHERAscan 7	SHERAscan 3
Free form modelling	✓	✓
Mirror anatomy of contralateral	✓	✓
Dynamic, virtual articulator	✓	✓
Simultaneous modelling on UJ and LJ	✓	✓
Attachments	✓	✓
Crown contouring possible directly from advance designs and diagnostic wax ups	✓	✓
Complete STL file output (design & scan)	✓	✓



Technical data scanner



Indications

Basic software: crown and bridge designer

Single crowns
Bridge frameworks
Anatomical crowns and frameworks
Full anatomic crowns
Full anatomic bridges
Wax-up single crowns / wax-up bridges
Inlays / onlays / inlay bridges
Veneers
Over press crowns and bridges
Post and core
Telescopic crowns

SHERAscan 7

SHERAscan 3

✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓

	Crown and bridge designer
	Abutment and bar designer
	Virtual model builder
	Partial framework designer
	Rapid-Prototyping
	Orthodontic archiving
	Splint designer
	Total prosthetics designer
	Preoperative implant planning (coDiagnostiX)

Gold	Productivity	Platinum	Gold
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
+	✓	✓	+
+	+	✓	+
+	+	✓	+
+	+	✓	+
+	+	+	+



Software

The comprehensive and powerful SD Manager Design Software takes your individual demands and expectations as well as the knowledge of the user into account - from a simplified working procedure with the help of wizards (system assistants) to advanced parameter adjustments. The automatic mode and the full crown design simplify your work with automatic generated recommendations and nevertheless let you free space for your individual style and your personal preferences. The system allows flexibility: even in complex situations, everything runs smoothly with the SD Manager Design Software. Software updates are regularly at your disposal. Consequently, you stay up to date anytime.

incoming data

face scan

CBCT/CT scans
2D-xrays

intraoral scan
impression scans

model scans

applications



outgoing data

3D printing

milling

casting

(Internal or external processes of service provider using open STL files)



Software



Crown and bridge designer

... for crowns, bridges, telescopes or inlays - with a considerable scope of creativity.



Abutment and bar designer

... allows you to have the complete control of all abutment parameters.



Virtual ModelBuilder

... for the virtual model production based on an intraoral or impression scan.



Partial framework designer

... offers intuitive design tools that transfer the dental technician's know how to digital settings.



Rapid-Prototyping

... for 3D printing: generating print data, creating supports and supporting structures.



Orthodontic archiving

... increases the efficiency in dental practice and saves storage room.



Splint designer

... for the economic and fast production of bite splints.



Total prosthetics designer

... simplifies the designing of total prostheses.



Preoperative implant planning (coDiagnost iX)























... for a fully integrated and guided surgical working process.







SHERAprint-it

Under pressure? We print for you!

We see ourselves as a service partner for your laboratory. Our first concern is to support you in a way that suits you and to your desire. We print with the highest quality on one of the currently most precise and quickest DLP printers available.

Implant model	Die model	Further print offers
Models available in the colours grey, sand, smoky white	Models available in the colours grey, sand, smoky white	
 Model quadrant incl. 1 implant hole	 Model quadrant incl. 1 preparation	 Orthodontic model with base (UJ or LJ)
 Model quadrant (opposing jaw)	 Model quadrant (opposing jaw)	 Surgical guide (without sleeves)
 Model complete jaw incl. 1 implant hole	 Model complete jaw incl. 1 preparation	 Custom tray
 Model complete jaw (opposing jaw)	 Model complete jaw (opposing jaw)	 Chrome casting
 additional implant hole	 additional removable die	 ID-002 ID-tag
 Gingiva mask, per unit	 Gingiva mask, per unit	 Construction / design service (for models only)
 2-colour print model / die (per patient case)	 2-colour print model / die (per patient case)	 control model complete jaw (e.g. for telescopic works)
		 control model quadrant (e.g. for telescopic works)

Just send us the final design, of the job to be printed, as an open stl file. All design parameters can be found in the download area on www.shera.de. We willingly can also take care of the design for you on the basis of your scan data based on a lump sum. Kindly state your customer number and laboratory name. We will check your data and create the printing job. In case we see a need for optimisation regarding the design, we will definitely confer with you. On request, we can print the suitable gingiva and imprint your ID tag. With SHERAprint you have a coordinated and sophisticated system that offers the highest degree of precision and process reliability.

			
Send stl files to print-it@shera.de via wetransfer.com	Check files or design	Process printing job	Quality control and dispatch



SHERAprint-cone



SHERAprint-cone

Digital die shape

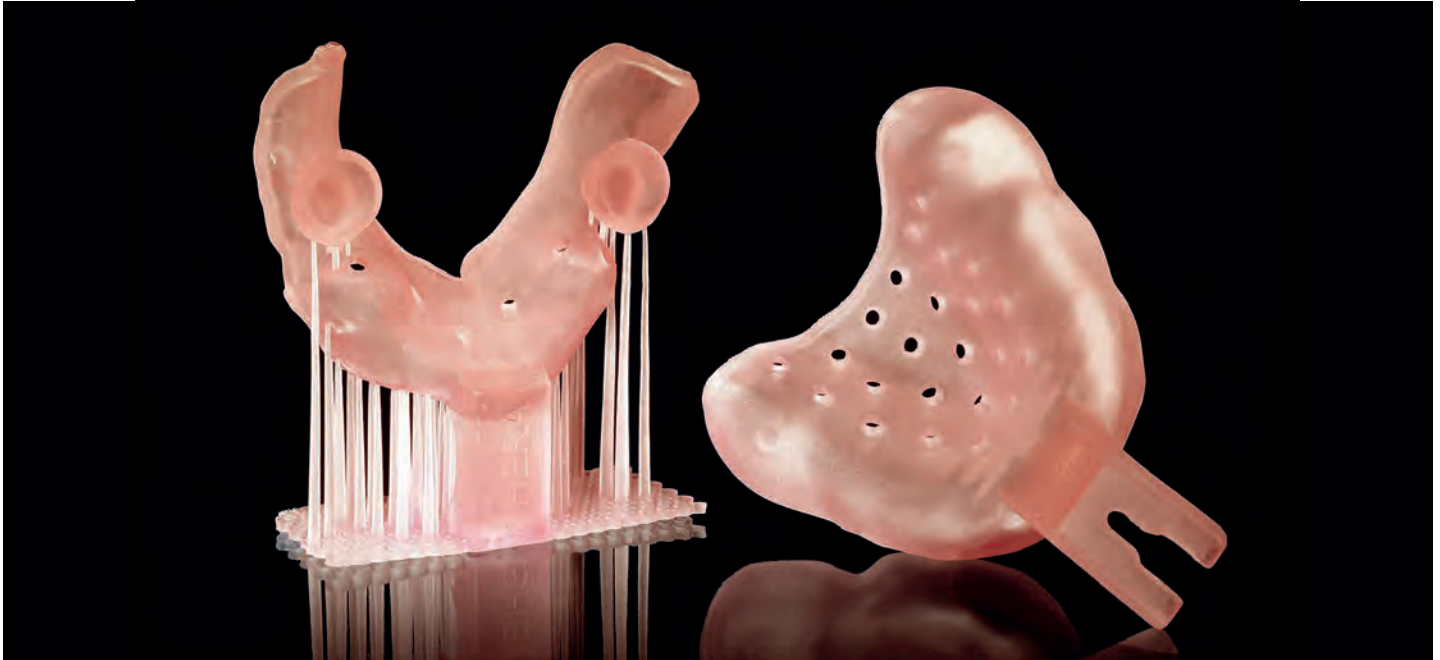
- part of the virtual ModelBuilder
- digital version of the die in the alveolar model
- can be easily removed and precisely repositioned
- conical die shape
- with pelvic axis as rotation protection
- perfect fit in the alveola
- with vestibular control window in order to check the fit of the die - exclusive only at SHERA
- trial version of the SD Manager as download on www.shera.de/downloads

patent pending





SHERAeasy-base



SHERAeasy-base

SHERAeasy-base

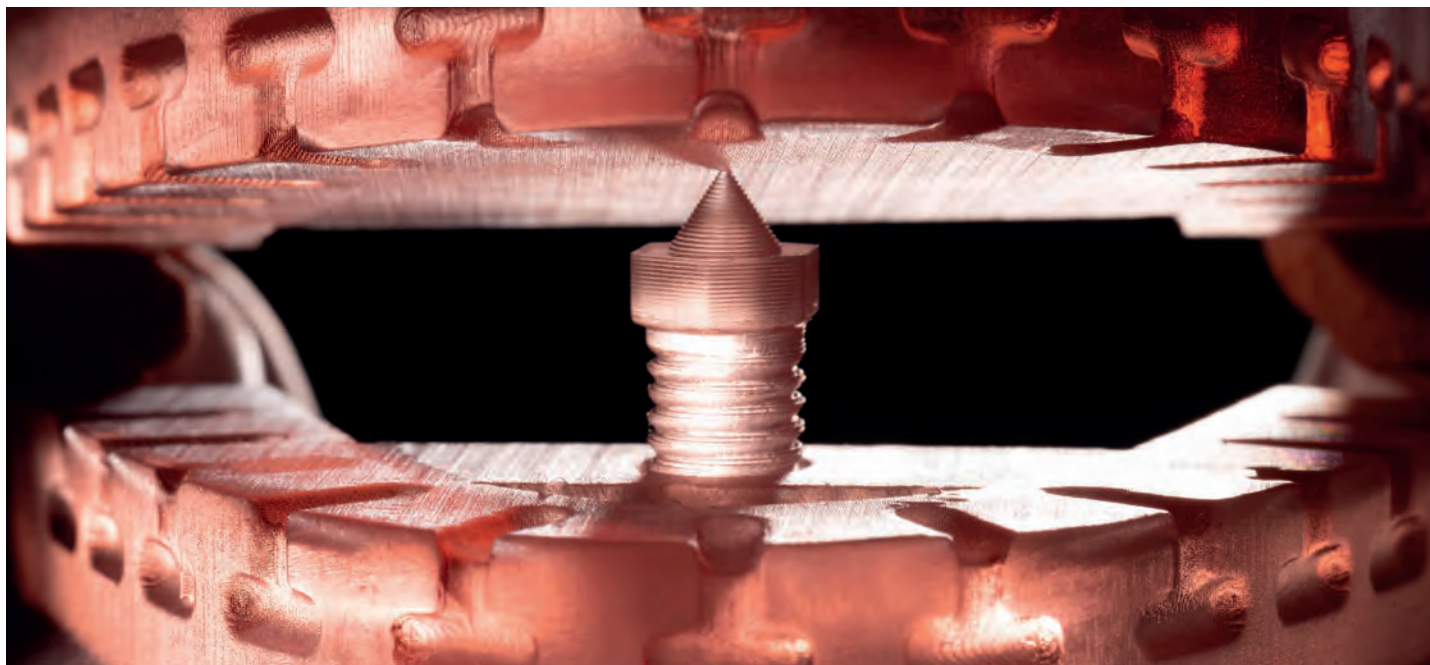
Stand-alone software for 3D printing custom trays up to bite registrations open for the import of scan files (STL, PLY and OBJ) powered by Jürgen Wahlmann

Trays:

- synchronised to properties of the impression material (e.g. flow properties and hardness) as well as to the impression technique
- material library with 11 different possible combinations, continuously being developed
- parameters of the most common processes like monophasic, double mix and correction impressions are stored
- additional brim is automatically created
- for trays giving optimised compression and even layer of the impression material
- economic as it reduces impression material
- process reliability already whilst taking the impression
- facilitates the preparation of custom tray handles, e.g. with customer logo
- custom tray handles with integrated application of several face bow systems also available

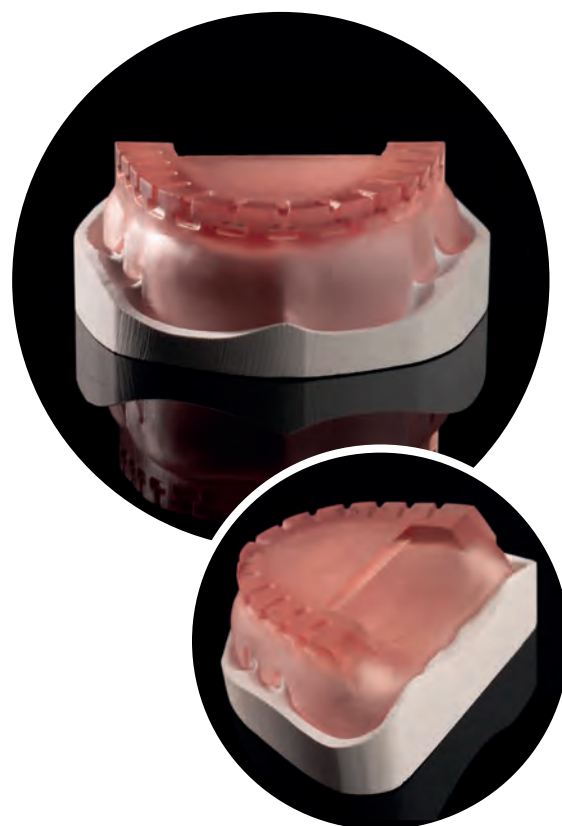


SHERAeasy-base



For occlusal dimensions

- quickly and individually created – automatically positioned to the occlusion level
- occlusion level: given distance to the vestibula fold, scrollable and tilt-able
- occlusal level can be defined via spline (dotted line)
- adjustable occlusion level and retentions for wax





Printing

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Accessories



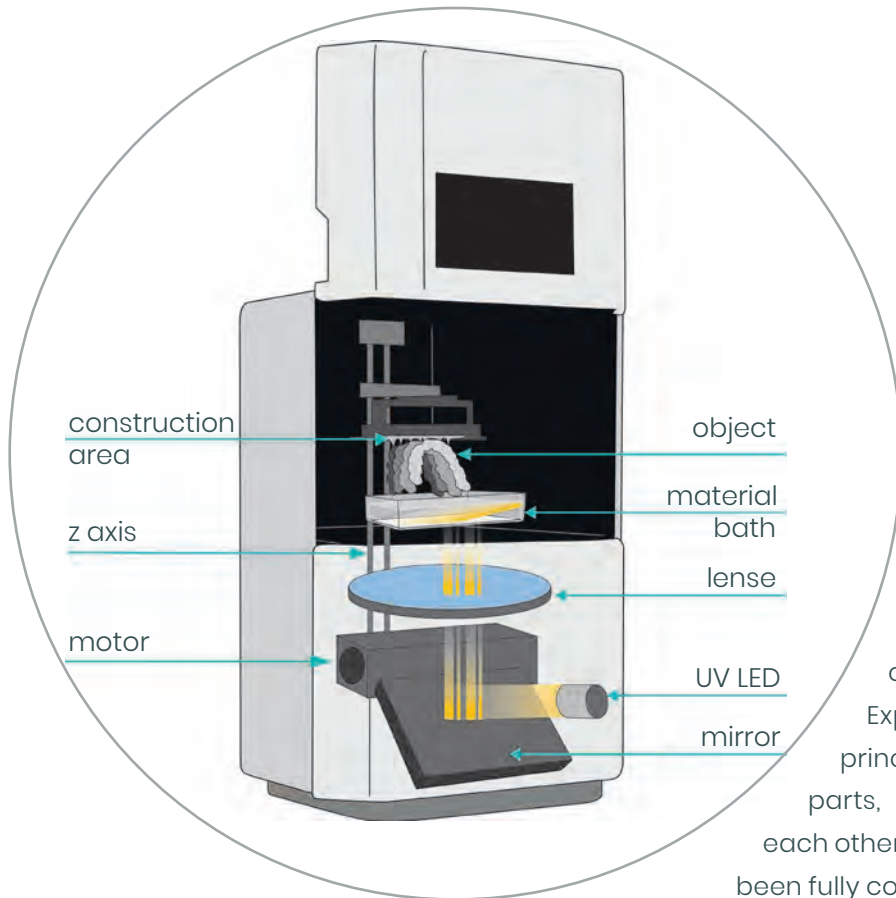


SHERAprint- the right model for everyone

With SHERAprint you have a coordinated and sophisticated system which offers a maximum of precision as well as process reliability. It is very fast and technically perfected for dentistry. 3D printers from SHERA are available in three versions - from the entry-level model to the industrial version. These are based on Rapid Shape equipment technology, a Swabian machine manufacturer bringing a world of experience in additive manufacturing, with whom we combined both profound knowledge and our decades of experience in dental technology.

A lot of SHERA know-how, especially in the field of material competence, is implemented into the SHERAprint system. This allows users to print precise and reliable results from day one, as print parameters are already pre-set. This process reliability is a must have, especially when processing medical devices.

3D printers



What is the secret?
Impressive technology with a smart light concept

Inside the printers of the SHERAprint series, a multitude of tiny mirrors guide the LED light to the areas of the construction platform that are to be cured. Exposure according to the 'black-white' principle causes the resin to cure at the desired parts, whereby the polymers quickly bond to each other, layer by layer, until the printed object has been fully constructed.

Force
Feedback
Technology
for precision

The SHERAprint software also calculates the areas between the individual print layers and adjusts the transitions accordingly. As a result, perfect transitions between individual layers, optimised surfaces and precise results are ensured.

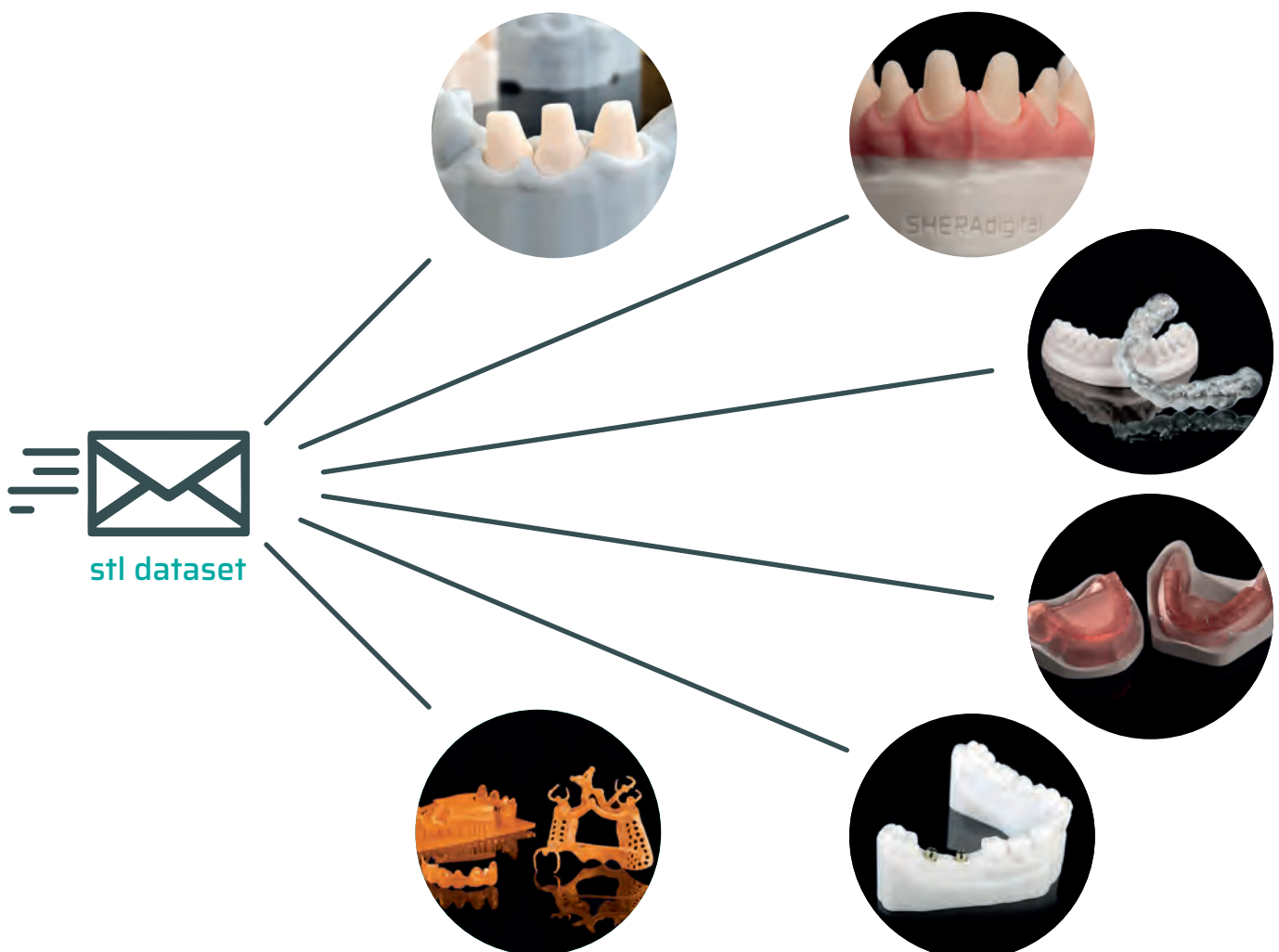
The core of the SHERAprint range is the patented Force Feedback Technology, allowing the printer to consistently operate at maximum speed and with highest possible form stability. The SHERAprint operates on solid and thin print areas with differing peel strength. For each layer that is to be polymerised, the printer's software calculates the tensile force that is needed to control the construction platform.

If the cross-section of the surface to be exposed is rather small, less pulling force is applied. If the cross-section is larger, more pulling force is required. Thanks to the Force Feedback Technology, the detachment of the printing object from the bath is recognized. The printer immediately controls the next layer. Other printers without Force Feedback Technology work much slower.

Integrate the SHERAprint into your digital workflow - print precision!

Just send a stl dataset to your SHERAprint printer. The SHERAprint software slices the dental work into individual, ultra-thin layers, and generates the print job. You can accept open STL files from any system you like, irrespective of the application or method you have used to scan or design your work. Please note: Whatever you

print, the objects must have labial, occlusal or basal positioning on the supports. The printing parameters are optimally adjusted to each material - for highest precision of the printing results.





3D printer

SHERAprint 20

3D printer

- DLP process with long-lasting LED
- patented Force Feedback Technology (optional)
- RFID material identification
- integrated 7" LCD display, touch control
- Made in Germany
- can be integrated into open digital workflows
- processing of STL files
- wide range of high-quality light-curing SHERAprint resins, approved as medical devices depending on application
- no additional support material required, very material-saving
- automatic calibration for constant precision
- rapid return on investment

Technical data

Construction platform:	133 x 75 mm
Resolution:	HD 1920 x 1080 pixel (native pixels \pm 34 μ m)
Max. construction height:	90 mm
Light source:	385nm UV LED
Layer thickness:	50 - 150 μ m, depending on the material (min. layer thickness in z: 0.5 μ m) depending on the material
Construction speed:	without Force Feedback: up to 50 mm/h with Force Feedback: up to 100 mm/h, depending on the material and layer thickness
Elect. connection:	100 - 240 V AC, 50/60 Hz, 180 W
Dimensions:	closed: 335 x 541 x 349 mm (W x H x D) opened: 335 x 779 x 349 mm (W x H x D)
Weight:	approx. 27 kg
Item no.:	SD104012



3D printer





3D printer

SHERAprint 30

3D printer with Force Feedback Technology

- DLP process with long-lasting LED
- patented Force Feedback Technology
- RFID material identification
- heated material bath
- integrated 7" LCD display, touch control
- integrated 10" touch screen
- Made in Germany
- can be integrated into open digital workflow
- processing of STL files
- wide range of high-quality light-curing SHERAprint resins, approved as medical devices depending on application
- no additional support material required, very material-saving
- automatic calibration for constant precision
- rapid return on investment

Technical data

Construction platform:	133 x 75 mm
Resolution:	HD 1920 x 1080 pixel (native pixels \pm 34 μ m)
Max. construction height:	110 mm
Light source:	385 nm UV LED
Layer thickness:	50 - 150 μ m, depending on the material (min. layer thickness in z: 0.5 μ m) depending on the material
Construction speed:	up to 100 mm/h, depending on the material and layer thickness
Elect. connection:	100 - 240 V AC, 50/60 Hz, 260 W
Dimensions:	closed: 480 x 690 x 410 mm (W x H x D) opened: 480 x 1000 x 410 mm (W x H x D)
Weight:	approx. 44 kg
Item no.:	SD104013





3D printer

SHERAprint 40

3D printer with two construction areas

- DLP process with long-lasting LED
- patented Force Feedback Technology
- RFID material identification
- heated material bath
- integrated 7" LCD display, touch control
- integrated 10" touch screen
- Made in Germany
- can be integrated into open digital workflow
- processing of STL files
- wide range of high-quality light-curing SHERAprint resins, approved as medical devices depending on application
- no additional support material required, very material-saving
- automatic calibration for constant precision
- rapid return on investment

Technical data

Construction platform:	2 x (133 x 75 mm), double construction area
Resolution:	HD 1920 x 1080 pixel (native pixels \pm 34 μ m)
Max. construction height:	110 mm
Light source:	385 nm UV LED
Layer thickness:	50 - 150 μ m, depending on the material (min. layer thickness in z: 0.5 μ m) depending on the material
Construction speed:	up to 100 mm/h, depending on the material and layer thickness
Elect. connection:	100 - 240 V AC, 50/60 Hz, 260 W
Dimensions:	closed: 480 x 690 x 410 mm (W x H x D) opened: 480 x 1000 x 410 mm (W x H x D)
Weight:	approx. 49 kg
Item no.:	SD104014



Light-curing units

The light curing process inside the 3D printer SHERAprint ensures that resins polymerise with geometric stability. After printing, the objects are released from the construction platform, cleansed and post-cured. You can choose between two systems for post-processing. On the one hand, you can proceed step by step with the cleaning bath in an ultrasonic cleaner using SHERAultra-p and the light curing unit SHERAflash-light plus. On the other hand, we offer you a fully automated process with SHERAprint-wash&cure, in which parameters are perfectly set according to the materials and print job.



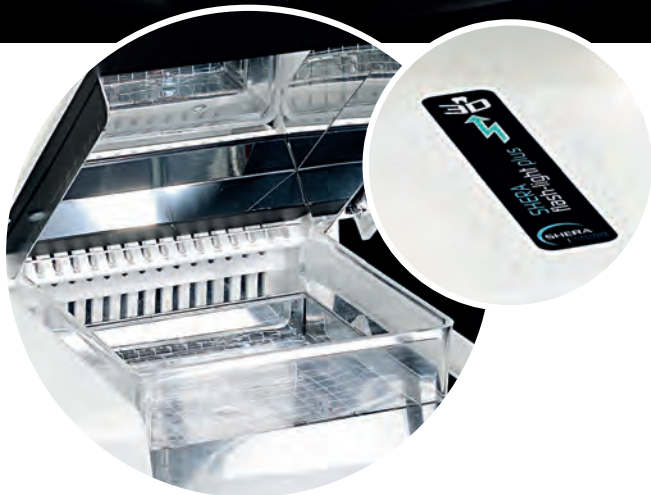
SHERAflash-light plus

Light-curing unit

- for SHERAprint resins
- nitrogen can be activated as a protective gas

Technical data

Polymerisation chamber:	120 x 120 x 50 mm
Number of light sources:	2 flashbulbs of 100 W each
Nominal voltage:	100, 117, 230 V AC, switchable
Nominal frequency:	50 / 60 Hz
Power consumption:	250 W
Spectral distribution:	280 - 700 nm
Dissipated power averaged over time:	200 W
Flash frequency:	10 flashes per second
Digital timer:	adjustable from 1 to 9,999 flashes
Dimensions (W x H x D):	310 x 140 x 310 mm
Weight:	approx. 7 kg
Item no.:	SD104501



Print post processing



auto-
mated!

SHERAprint-cure

Light-curing unit

- automated curing in 4 - 8 minutes
- perfectly adapted to material and indication
- with vacuum function (no protective gas required)
- validated workflow
- homogeneous 360° curing at the push of a button
- UV-A and UV-B
- touch display control
- process documentation

Technical data

Power:	220 W
Component volume, max:	130 x 75 x 60 mm
Dimensions (W x H x D):	closed: 230 x 270 x 380 mm opened: 230 x 420 x 380 mm
Weight:	16 kg
Electrical connection:	24 V DC
Media:	WLAN / LAN
Item no.:	SD104600

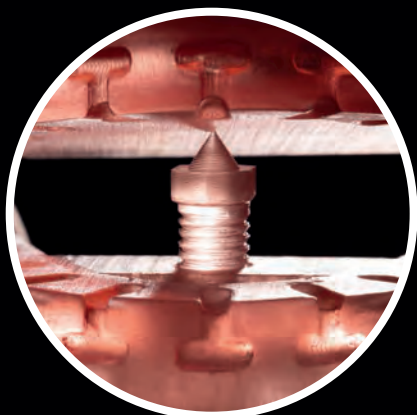
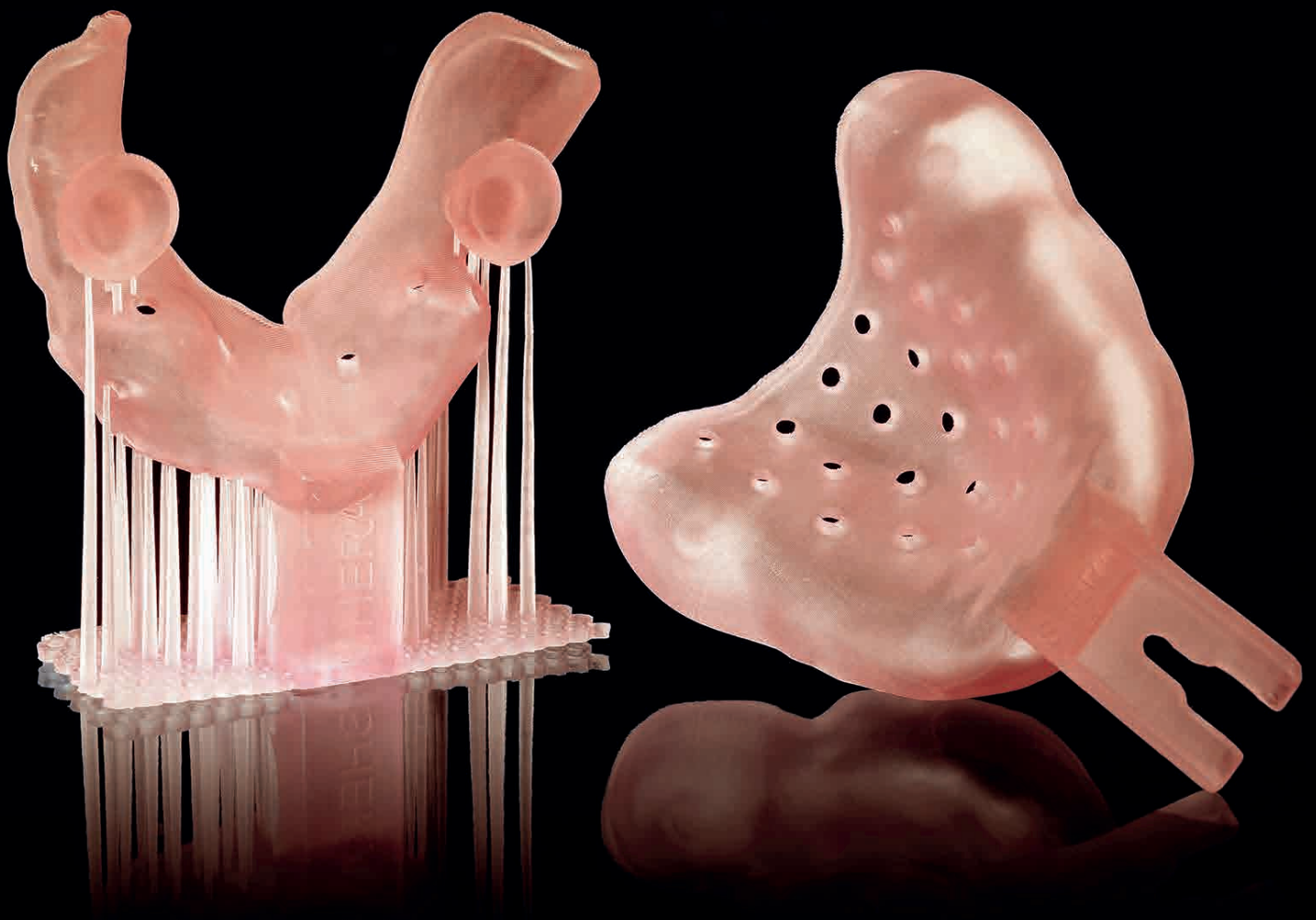
SHERAprint-wash

Cleaning and drying unit

- cleaning in 6 - 8 minutes at the touch of a button
- clean handling of printing resin residues
- no odour formation
- simple and certified workflow
- saves cleaning fluid
- touch display control

Technical data

Power:	120 W
Component volume, max:	130 x 75 x 60 mm
Dimensions (W x H x D):	closed: 230 x 270 x 380 mm opened: 230 x 270 x 500 mm
Weight:	15 kg
Electrical connection:	24 V DC
Media:	WLAN / LAN
Item no.:	SD104700





SHERAprint- materials

All SHERAprint resins are high-quality light-curing resins, specifically tailored for 3D printing with SHERAprint. For each material, the ideal print parameters have been configured in the software – giving precise and reliable results. Our materials are carefully produced and tested. The SHERAprint-ortho plus / UV splint material is certified as a class IIa medical device for permanent application in the patient's mouth. It is designed for printing highly precise surgical guides and bite splits.

The model material SHERAprint-model plus / UV is available in three different colours (smoky white, grey and sand) and stands for highly precise and aesthetic work bases. The 3D printing resin SHERAprint-cast&press is perfectly adjusted to the classic workflow of chrome castings and press process. The wide range of high-quality light polymers also includes SHERAprint-gingiva in a natural shade for printing suitable gingival masks as well as the medical device SHERAprint-tray clear for individual trays and bite registrations.



Print materials



SHERAprint-model UV

Light-curing 3D printing resin

- for the production of high precision models such as: master models, implant models, models for the aligner technique and veneer models
- for highly aesthetical works
- different layer thicknesses possible
- very good readability
- scannable surface
- available in 1000 g bottles

Technical data

Viscosity at 20°C:	<1.5 Pa s
Bending strength:	≥80 MPa
Bending e -modul:	≥2,0000 MPa
Colour:	smoky white
Item no.:	SD400390
Wave length:	for 3D printing on the basis of 385 nm



SHERAprint-model plus / UV

Light-curing 3D printing resin

- for the production of high precision master models
- for aesthetically appealing works
- create individualised models by combining two different colours
- very good readability
- scannable surface
- available in 1000 g bottles

Technical data	SHERAprint-model plus	SHERAprint-model plus UV
Viscosity at 23°C:	0.96 Pa s	0.96 Pa s
Bending strength:	75 MPa	75 MPa
Bending e -modul:	1,650 - 1,750 MPa	1,650 - 1,750 MPa
Shore hardness D:	71 - 84	71 - 84
Colour/Item no.:	grey /SD400082 sand /SD400083	grey /SD400382 sand /SD400383
Wave length:	for 3D printing on the basis of 405 nm (SHERAeco-print)	for 3D printing on the basis of 385 nm (SHERAprint)



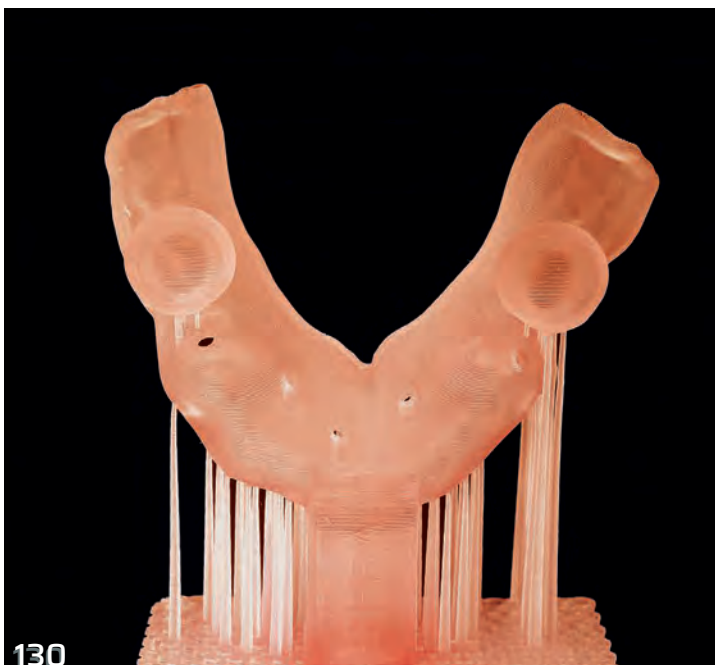
SHERAprint-tray clear

Light-curing 3D printing resin

- for the production of customised impression trays, bite registrations, transfer keys, etc.
- can be used for all types of trays in combination with various impression materials
- biocompatible
- available in 1000 g bottles
- medical device of class I

Technical data

Viscosity at 23°C:	< 0.8 Pa s
Viscosity at 28°C:	< 0.5 Pa s
Bending strength:	≥ 80 MPa
Bending e -modul:	≥ 2,000 MPa
Shore hardness D:	80
Item no.:	SD400140
Wave length:	for 3D printing on the basis of 385 nm





SHERAprint-gingiva

Light-curing 3D printing resin

- for the production of gingiva masks
- for aesthetically appealing works
- offers process reliability for optimal control
- easy to grind
- available in 500 g bottles



Technical data

Viscosity at 23°C:	0.5 – 1 Pa s
Shore hardness A:	65
Colour:	pink
Item no.:	SD400101
Wave length:	for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)



SHERAprint-ortho plus / UV

Light-curing 3D printing resin

- for the production of bite splints and retainers in the field of orthodontic treatments
- for the production of surgical guides
- clear resin with high wear comfort
- very easy to polish and grind
- repairable with conventional resins
- biocompatible
- available in 1000 g bottles
- medical device of class IIa

Technical data

Viscosity at 23°C:
 Bending strength:
 Bending e -module:
 Shore hardness D:
 Colour:
 Item no:
 Wave length:

SHERAprint-ortho plus

0.62 Pa s
 79 MPa
 1,900 - 2,100 MPa
 74 - 83
 clear
 SD400045
 for 3D printing
 on the basis of 405 nm
 (SHERAeco-print)

SHERAprint-ortho plus UV

0.62 Pa s
 79 MPa
 1,900 - 2,100 MPa
 74 - 83
 clear
 SD400345
 for 3D printing
 on the basis of 385 nm
 (SHERAprint)

SHERAprint-cast&press

Light-curing 3D printing resin, residue free burnout

- for the production of different types of casting objects
- highly precise production of dentures or other delicate work
- tailored to the casting with the investment SHERAVEST RP
- can be used both for shock heating and conventional heating process
- for veneers, inlays or onlays for press ceramic in combination with SHERAUNDER PRESSURE
- available in 1000 g bottles

Technical data

Viscosity at 20°C:	1.8 Pa s
Colour:	orange
Item no.:	SD400095
Wave length:	for 3D printing on the basis of 385 nm and of 405 nm

Product video



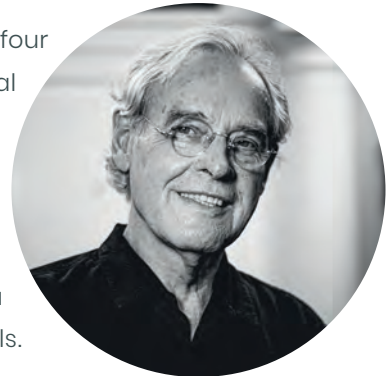
Print materials



Art meets print

powered by Klaus Mütterthies

With his legendary layering concept "quattro stagioni" (the four seasons), Klaus Mütterthies has influenced the way dental technicians of all generations work. SHERA transfers his "Four Seasons" into the digital era and transforms the original stone models for the layering technique into the 3D printed version. Two boxes with the model sets Posteriori and Anteriori were created for "Art-Oral": Posteriori and anterior - by which you can present the beauty and character of your artistic dental skills.



Quattro Stagioni Posteriori

Art meets print-Modellbox

Printed model set consisting of:
 A printed model with four removable segments with four different gingival situations
 + four removable dies
 + four zirconium copings
 + presentation block for the finished presentation work

The segments, dies and copings are interchangeable "seasonally". Printed with SHERAprint-model UV smoky white.

Item no.
 SD900100



Quattro Stagioni Anteriori

Art meets print-Modellbox

Printed model set consisting of:
 A printed model with four removable anterior segments with different gingival situations
 + four zirconium copings
 + presentation block for the finished presentation works

The segments, dies and copings are interchangeable "seasonally". Printed with SHERAprint-model UV smoky white

Item no.
 SD900101



Accessories

We recommend using an individual material bath including lid for each printing material. This facilitates the handling and the quick change of the materials. Please

note that the material bath and the lid for the 3D printer SHERAprint 20 is different in size so that the lid does not fit on the larger bath.



SHERAbath

Material bath for SHERAprint 20
- item no. SD109812

SHERAbath

Material bath for SHERAprint 30/40
- item no. SD109813



Lid for material bath

for SHERAprint 20
- item no. SD109822

for SHERAprint 30/40
- item no. SD109823



SHERAultra-p

Ultrasonic cleaner for 3D-printed resin objects

- for effective cleaning of 3D-printed works
- removes residual material before curing
- available in 800 ml bottles
- item no: SD401000

SHERAclean-p

Special cleaner for SHERAprint material baths

- especially for the Teflon-coated material baths of the SHERAprint 3D printers
- for streak-free surfaces and flawless printing
- available in 500 ml bottles
- item no. SD401001



Milling

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Milling
machines

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Milling discs

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SHERAtools





Milling machines

As an OEM partner of vhf, we sell the models SHERAmill dry+ and wet+ under the SHERA label. On request, we will be glad to provide you with further models out of SHERA hand with the associated comprehensive support.

The advantages of SHERAmill are not only its high performance and precision, but also the large degree of freedom in the selection of milling and grinding materials. The milling machines can be connected to any open CAD software and common scanner. As part of the SHERA workflow, we have already developed ideal and suitable materials as well as processing strategies and adapted them to the machines - for an easier start and a proven milling process.





Milling discs

High-quality milling discs made of different materials such as zirconia, PMMA or wax are part of the SHERAdigital range. When selecting blanks, the focus is on quality and reliable results with the SHERA workflow. We have concentrated on the main areas of activity that have proven to be economical and efficient for users.



Milling discs



SHERAdisc PM

Disc made of pure polymethyl methacrylate (PMMA)

- for e.g. temporary crowns and bridges
- very easy to process
- ø 98.5 mm, with step
- medical device of class IIa

Technical data

Bending strength [MPa]: 114
 Vickers hardness [HV 10]: 26.60
 E-module [MPa]: 2,771
 Residual monomer [%]: < 1

Colour:	clear	A2	A3	B1
Item no. / thickness 20 mm:	SD202020	SD202022	SD202023	SD202025
Item no. / thickness 25 mm:	-	SD202042	SD202043	SD202045



SHERAcad-wax

Disc made of wax

- hard, can be machined very well
- burns free of residue
- in green for more elasticity for e.g. for partial framework
- ø 98.5 mm

Technical data

Dropping point [°C]: 120
 Flash point [°C]: > 220
 Density [g/m³]: 0.95

Colour:	beige	green	green
Thickness:	20 mm	20 mm	25 mm
Item no.:	SD206010	SD206020	SD206021



Milling discs



SHERAdisc ZR

Disc made of zirconia

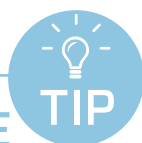
- for crowns and bridges
- yttrium-stabilized, pre-sintered
- very good biocompatibility
- high strength and edge stability
- very good to process
- constant firing shrinkage
- ø 98.5 mm
- medical device of class IIa

Technical data

Density [g/cm³]: > 6.05
 Bending strength [MPa]: 1,100 (translucent),
 1,400 (opaque)

Weibull modul [m]: 5
 E-module [GPa]: 210
 Coefficient of expansion [25-500°C]: $11 \times 10^{-6} \text{K}^{-1}$

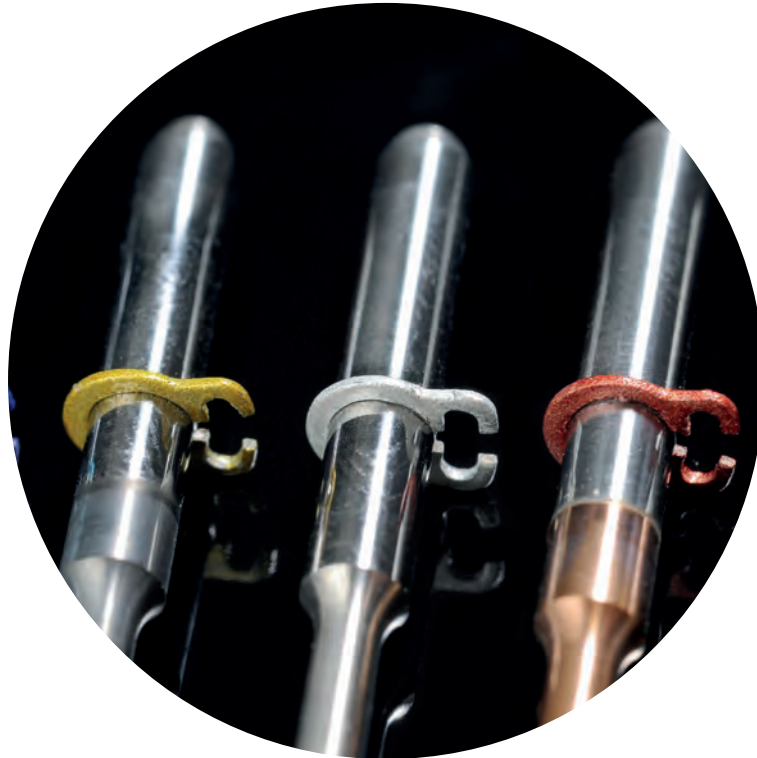
Colour:	white translucent	white opaque
Item no. / thickness 10 mm:	SD208011 (without step)	SD208001 (without step)
Item no. / thickness 14 mm:	SD208033 (with step)	SD208023 (with step)
Item no. / thickness 18 mm:	SD208035 (with step)	SD208025 (with step)
Item no. / thickness 22 mm:	SD208037 (with step)	SD208027 (with step)
Item no. / thickness 25 mm:	SD208039 (with step)	SD208029 (with step)



POLISHING PASTE

Our polishing pastes are perfectly developed to suit our discs – everything for a fast high lustre polish can be found on page 76 + 77.





SHERAtools

Optimised tools concerning handling, precision, lifetime and cost-efficiency: these are the dental milling tools and grinding pins of SHERAtool. Characteristics are especially reliable grinding geometry and perfect cutting edges. During the selection, we focussed on excellent lifetime and long-lasting tools. The SHERAtools are designed to process zirconia, composites, wax, acrylic, non-precious alloys as well as glass ceramic.



SHERAtools

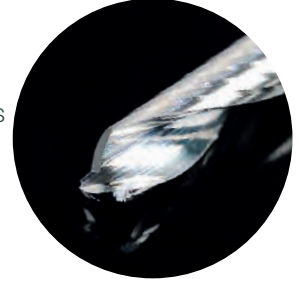
Radius milling tools

- for the best results from coarse grinding, sizing up to fine-tuning
- semi-circular rounded tool tip
- diameter of 2.0 to 0.3 mm
- large free grinding
- 0.3 mm are the best choice for fissures



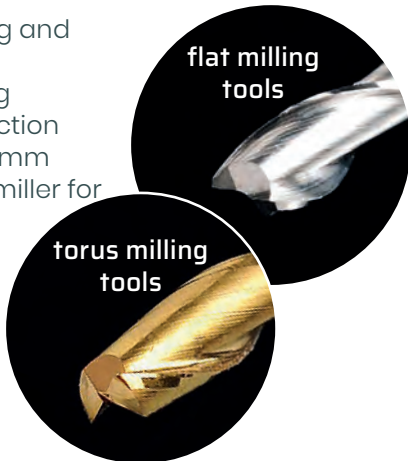
Single edged cutters for wax and resins

- single faceted cutting edge
- diameter of 2.5 to 1.0 mm
- flute for perfect transportation of lubricating material chippings
- very smooth surface at high feed rates thanks to the extremely sharp edge



Flat milling tools / torus milling tools

- for penetrative drilling and abutments
- double-edged milling tools with flat end section
- diameter of 1.2 to 0.5 mm
- designed as a torus miller for non-precious metals
- available with diamond coating for milling zirconium (fivefold service life)



Grinding points for glass ceramics

- grinding pin with diamond coating in different versions
- coarse-grained torus abrasive pin for coarse milling
- fine-grained torus abrasive pin the preparation of abutment geometries
- fine-grained radius grinder for finishing
- to avoid micro cracks, wear or breakage
- reduced thermal load
- increased durability of the tools



Application Areas



Coloured rings indicate the application areas of the milling tools.

zirconia



light blue

zirconia



dark blue
(diamond-coated)

composite



yellow

wax and acrylic



silver

non-precious alloys



red

glass ceramic



black

universal



black



SHERAmill

Index of milling tools	Ø	length	5x/5x- change	dry/+	wet/+	40/50	Item no.
			VHF 51/52	VHF K5/K5+	VHF N4/N4+	VHF K3/K4	
for zirconium oxide with special coating							
SHERAtool ZR1-40, radius milling tool	1.0	40	x	x			SD800034
SHERAtool ZR2-40, radius milling tool	2.0	40	x	x			SD800035
SHERAtool ZR1-35, radius milling tool	1.0	35				x	SD800004
SHERAtool ZR2-35, radius milling tool	2.0	35				x	SD800005
for zirconium with diamond coating							
SHERAtool ZRD06-40, radius milling tool	0.6	40	x	x			SD800132
SHERAtool ZRD1-40, radius milling tool	1.0	40	x	x			SD800134
SHERAtool ZRD2-40, radius milling tool	2.0	40	x	x			SD800135
SHERAtool F-ZRD12-40, flat milling tool	1.2	40	x	x			SD800137
for composites with special coating							
SHERAtool CF1-40, radius milling tool	1.0	40	x	x			SD800044
SHERAtool CF2-40, radius milling tool	2.0	40	x	x			SD800045
SHERAtool CF1-35, radius milling tool	1.0	35				x	SD800014
SHERAtool CF2-35, radius milling tool	2.0	35				x	SD800015
for wax and acrylics							
SHERAtool WPI-40, radius milling tool	1.0	40	x	x			SD800054
SHERAtool WP2-40, radius milling tool	2.0	40	x	x			SD800055
SHERAtool WPI-35, radius milling tool	1.0	35				x	SD800024
SHERAtool WP2-35, radius milling tool	2.0	35				x	SD800025
single edged for wax and acrylics							
SHERAtool WPS1-40, radius milling tool	1.0	40	x	x			SD800094
SHERAtool WPS2-40, radius milling tool	2.0	40	x	x			SD800095
SHERAtool F-WPS25-40, flat milling tool	2.5	40	x	x			SD800098
SHERAtool WPS1-35, radius milling tool	1.0	35			x	x	SD800084
SHERAtool WPS2-35, radius milling tool	2.0	35			x	x	SD800085
SHERAtool F-WPS25-35, flat milling tool	2.5	35			x	x	SD800088
for non-precious alloys							
SHERAtool EMF06-35, radius milling tool	0.6	35	x	x			SD800072
SHERAtool EMF1-35, radius milling tool	1.0	35	x	x			SD800074
SHERAtool EMF2-35, radius milling tool	2.0	35	x	x			SD800075
SHERAtool EMF06-32, radius milling tool	1.2	35	x	x			SD800077
SHERAtool EMF1-32, radius milling tool	0.6	32			x	x	SD800062
SHERAtool EMF2-32, radius milling tool	1.0	32			x	x	SD800064
SHERAtool EMF2-32, Radiusfräser	2.0	32			x	x	SD800065
SHERAtool F-EMF12-32, Torusfräser	1.2	32			x	x	SD800067
for glass ceramic							
SHERAtool GK06-35, radius grinding point	0.6	35	x		x		SD800302
SHERAtool GK1-35, radius grinding point	1.0	35	x		x		SD800304
SHERAtool GK24-35, radius grinding point	2.4	35	x		x		SD800306
SHERAtool F-GK06-35, torus grinding point	0.6	35	x		x		SD800312
SHERAtool F-GK12-35, torus grinding point	1.2	35	x		x		SD800317
universal							
SHERAtool U03-40, radius milling tool	0.3	40	x	x			SD800110
SHERAtool F-U05-40, flat milling tool	0.5	40	x	x			SD800111
SHERAtool U06-40, radius milling tool	0.6	40	x	x			SD800112
SHERAtool F-U12-40, flat milling tool	1.2	40	x	x			SD800117
SHERAtool U03-35, radius milling tool	0.3	35			x	x	SD800100
SHERAtool F-U05-35, flat milling tool	0.5	35			x	x	SD800101
SHERAtool U06-35, radius milling tool	0.6	35			x	x	SD800102
SHERAtool F-U12-35, flat milling tool	1.2	35			x	x	SD800107

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