



Dental catalogue



Dear Customer,

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 want 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 the SHERAONFIRE firing paste and the new addition cure silicone putty SHERATANDEM.

With our innovations and bestsellers and your favourite products from SHERA, everything will go smoothly in your laboratory. You can rely on our consistent quality and on the people behind the SHERA brand who are always there to help you – with advice and support, a willing ear and a deep commitment to your craftsmanship!



Jens Grill
CEO

Made by us with
true pride





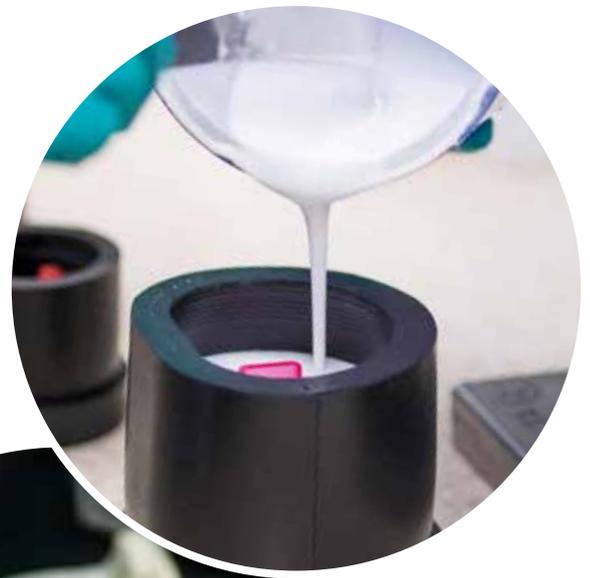
Every day, we here at SHERA produce 15 tons of dental stone, three tons of investment materials, one ton of silicone, many hectolitres of liquids, pastes and much more.





Our dedicated production and quality assurance teams know exactly where their responsibility lies in creating perfectly functioning products. They identify fully 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 every day by the people at SHERA – from incoming goods inspections of raw materials and production to our comprehensive system of quality assurance.





SHERA Academy

Profit from our expertise

At our premises in Lemförde, near to Lake Dümmer, we offer courses and workshops across a range of 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 in classic subject areas, such as model production and telescope technology, or with the casting of printed frames.





SHERA on the internet - Stay up-to-date

Follow us on Facebook, Instagram and Pinterest. In this way, you can stay constantly up-to-date with SHERA. Visit us at www.shera.de to find the latest user manuals for our products - also available to download - as well as mixing tables for investments and a number of practical tips for your everyday lab work.

Video



Download area



SHERACLASSIC

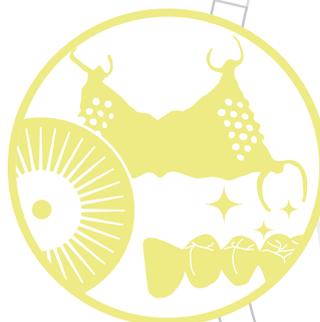
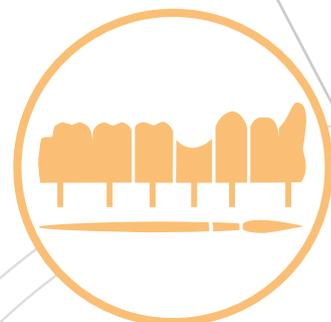
11 Preparation

37 Casting technique

67 Finishing

81 Acrylics

87 Miscellaneous



SHERAdigital

Scanning

95

Printing

109

Milling

137



Preparation

13

Stones /
Plasters

28

Impression
Material
Treatment

29

Isolating
Agents

30

Adhesive
& Co.

31

Pins

32

Silicones





Stones & Plasters

As one of the market leader for dental stones and plasters, we lay great emphasis on the quality while developing and producing. All SHERA stones and plasters are compatible with alginate, silicone, polyether as well as hydrocolloid impressions and offer excellent technical advantages 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 range includes perfect stones and plasters for any application: from working to presentation models, from CAD/CAM to opposing models. Altogether, we have more than 20 special stones / plasters for several applications in 20 different colours. Among them there are also the bestsellers SHERAHARD-ROCK and SHERAPURE.



SHERA HARD-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
- extreme 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 specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	300
hardness after 24 h (MPa; N/mm ²)	320
compressive strength after 1 h (MPa; N/mm ²)	70
compressive strength after 1 h (psi)	10,150
setting expansion after 2 h (%)	< 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

SHERAMAXIMUM 2000

Super hard stones 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 specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	310
hardness after 24 h (MPa; N/mm ²)	340
compressive strength after 1 h (MPa; N/mm ²)	64
compressive strength after 1 h (psi)	9,280
setting expansion after 2 h (%)	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	5 kg
Item no.	Item no.
101040-14 (yellow)	101041-14 (yellow)
101040-18 (golden brown)	101041-18 (golden brown)
101040-22 (grey)	101041-22 (grey)

Technical specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	300
hardness after 24 h (MPa; N/mm ²)	320
compressive strength after 1 h (MPa; N/mm ²)	62
compressive strength after 1 h (psi)	8,990
setting expansion after 2 h (%)	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



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 (cream white)	
101153-25 (light grey)	3 kg sachet
101153-82 (cream white)	

Technical specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	310
hardness after 24 h (MPa; N/mm ²)	330
compressive strength after 1 h (MPa; N/mm ²)	70
compressive strength after 1 h (psi)	10,150
setting expansion after 2 h (%)	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

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 specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	270
hardness after 24 h (MPa; N/mm ²)	290
compressive strength after 1 h (MPa; N/mm ²)	60
compressive strength after 1 h (psi)	8,700
setting expansion after 2 h (%)	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 specifications

mixing ratio (p : dw)*	100 : 23
hardness after 2 h (MPa; N/mm ²)	250
hardness after 24 h (MPa; N/mm ²)	270
compressive strength after 1 h (MPa; N/mm ²)	57
compressive strength after 1 h (psi)	8,265
setting expansion after 2 h (%)	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

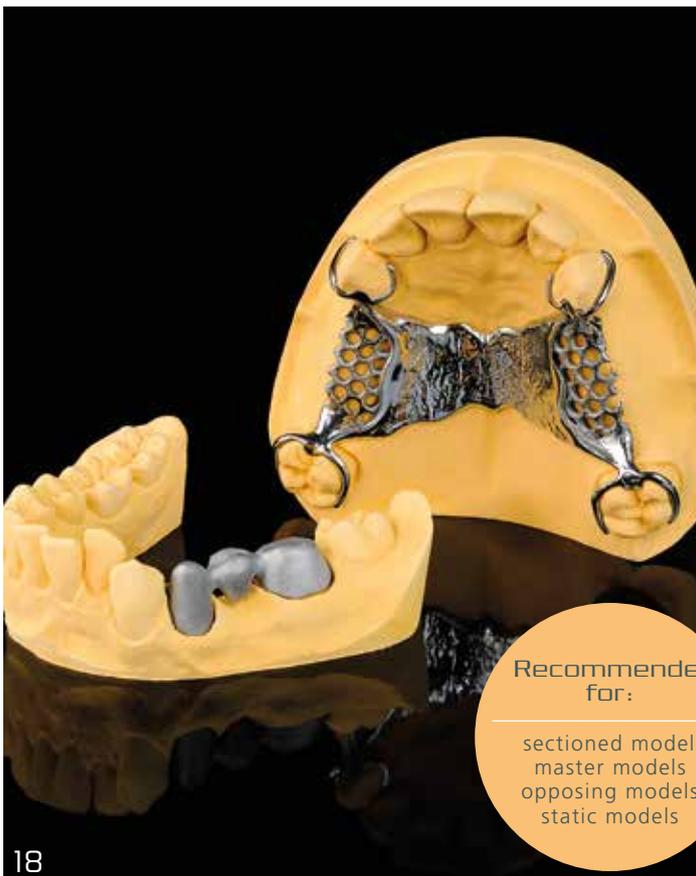
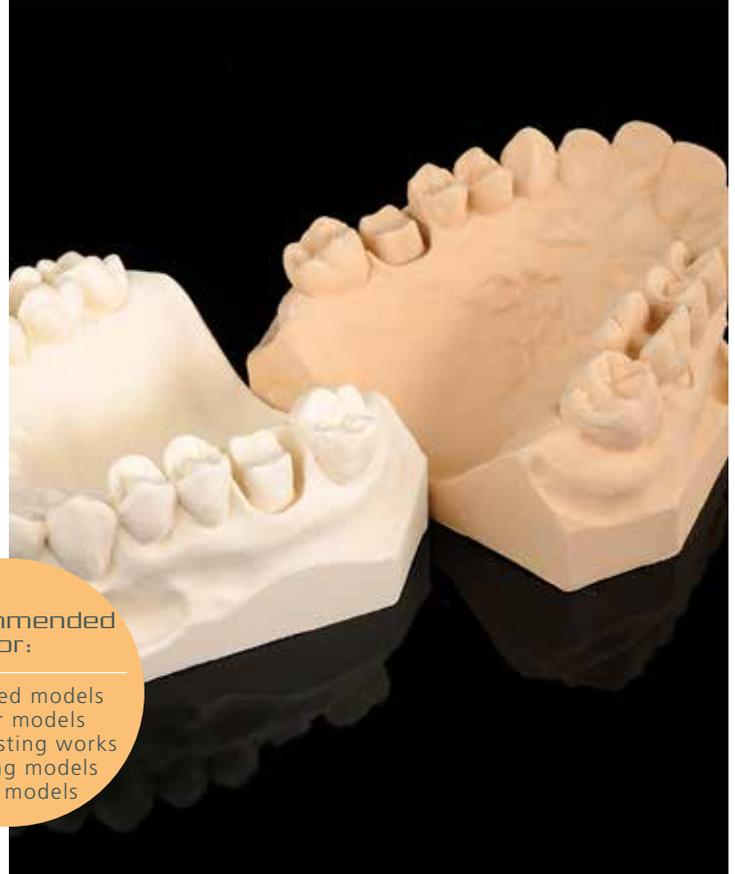
Item no.	Unit
101060-10 (ivory)	20 kg
101060-18 (golden brown)	
101061-10 (ivory)	5 kg
101061-18 (golden brown)	

Technical specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	300
hardness after 24 h (MPa; N/mm ²)	320
compressive strength after 1 h (MPa; N/mm ²)	57
compressive strength after 1 h (psi)	8,265
setting expansion after 2 h (%)	0.10
working time (min)	6.0 - 7.0
end of setting (min)	approx. 30

Recommended for:

sectioned models
master models
model casting works
opposing models
static models



Recommended for:

sectioned models
master models
opposing 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 specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	300
hardness after 24 h (MPa; N/mm ²)	320
compressive strength after 1 h (MPa; N/mm ²)	68
compressive strength after 1 h (psi)	9,860
setting expansion after 2 h (%)	0.18
working time (min)	6.0 - 7.0
end of setting (min)	approx. 35

*mixing ratio = powder : distilled water



Stones Type 4



SHERA® Jive

SHERAJIVE

Rapid set super hard stone for creative technicians

- short demould time of 10 minutes
- can be used for various applications
- for urgent denture repairs and relinings

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

Recommended for:

working models
opposing models
situation models

Technical specifications	
mixing ratio (p : dw)*	100 : 25
hardness after 2 h (MPa; N/mm ²)	190
hardness after 24 h (MPa; N/mm ²)	210
compressive strength after 1 h (MPa; N/mm ²)	48
compressive strength after 1 h (psi)	6,960
setting expansion after 2 h (%)	0.14
working time (min)	approx. 2.5
end of setting (min)	approx. 10

*mixing ratio = powder : distilled water



Stone for Basing Models



Recommended for:

dental arch bases

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
101110-38 (bright blue)	20 kg
101110-46 (rich yellow)	
101110-62 (terra)	
101110-66 (turquoise)	
101110-70 (white)	
101110-85 (light green)	

Technical specifications

mixing ratio (p : dw)*	100 : 23
hardness after 2 h (MPa; N/mm ²)	230
hardness after 24 h (MPa; N/mm ²)	250
compressive strength after 1 h (MPa; N/mm ²)	49
compressive strength after 1 h (psi)	7,105
setting expansion after 2 h (%)	0.05
working time (min)	3.5 - 4.5
end of setting (min)	approx. 40

Special Plaster



Recommended for:

thermoplastic resins

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 specifications

mixing ratio (p : dw)*	100 : 20
hardness after 2 h (MPa; N/mm ²)	160
hardness after 24 h (MPa; N/mm ²)	180
compressive strength after 1 h (MPa; N/mm ²)	30
compressive strength after 1 h (psi)	4,350
setting expansion after 2 h (%)	approx. 1.0
working time (min)	4.0 - 6.0
end of setting (min)	approx. 40



Stones Type 3

Modelling plasters

SHERADYNAMIC

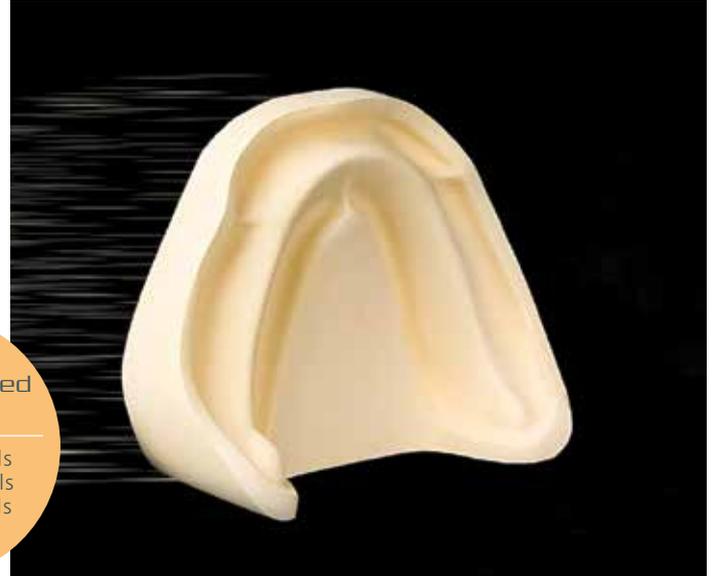
Very fast hard plaster

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

Technical specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	110
hardness after 24 h (MPa; N/mm ²)	120
compressive strength after 1 h (MPa; N/mm ²)	45
compressive strength after 1 h (psi)	6,525
setting expansion after 2 h (%)	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
- investing of models in flasks possible
- creamy consistency
- very good flow characteristics
- firm margins
- smooth and homogeneous surfaces

Technical specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	120
hardness after 24 h (MPa; N/mm ²)	140
compressive strength after 1 h (MPa; N/mm ²)	46
compressive strength after 1 h (psi)	6,670
setting expansion after 2 h (%)	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 (light-green)	
102010-26 (light blue)	
102010-70 (white)	



Recommended for:

- working models
- opposing models
- situation models

SHERAALPIN

Hard plaster

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

Technical specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	100
hardness after 24 h (MPa; N/mm ²)	110
compressive strength after 1 h (MPa; N/mm ²)	44
compressive strength after 1 h (psi)	6,380
setting expansion after 2 h (%)	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

*mixing ratio = powder : distilled water



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 specifications

mixing ratio (p : dw)*	100 : 28
hardness after 2 h (MPa; N/mm ²)	120
hardness after 24 h (MPa; N/mm ²)	140
compressive strength after 1 h (MPa; N/mm ²)	41
compressive strength after 1 h (psi)	5,945
setting expansion after 2 h (%)	0.15
working time (min)	5.0 - 6.0
end of setting (min)	approx. 20

Recommended for:

situation models
static models
denture repairs of 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 specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	100
hardness after 24 h (MPa; N/mm ²)	130
compressive strength after 1 h (MPa; N/mm ²)	39
compressive strength after 1 h (psi)	5,655
setting expansion after 2 h (%)	0.15
working time (min)	5.0 - 6.0
end of setting (min)	approx. 25

Recommended for:

situation models
static models
denture repairs of the
prosthetic technique
opposing models

SHERAALABASTER

Plaster type 2

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

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

Technical specifications

mixing ratio (p : dw)*	100 : 45 - 50
hardness after 2 h (MPa; N/mm ²)	36
hardness after 24 h (MPa; N/mm ²)	40
compressive strength after 1 h (MPa; N/mm ²)	18
compressive strength after 1 h (psi)	2,610
setting expansion after 2 h (%)	0.18
working time (min)	2.0 - 3.0
end of setting (min)	approx. 20

Recommended for:

situation models
flask technique





Articulating Plasters



Recommended for:

articulating milling bases over bites



Recommended for:

articulating milling bases over bites

SHERAARTI

Articulating plaster

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

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

Technical specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	80
hardness after 24 h (MPa; N/mm ²)	90
compressive strength after 1 h (MPa; N/mm ²)	29
compressive strength after 1 h (psi)	4,205
setting expansion after 2 h (%)	< 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

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

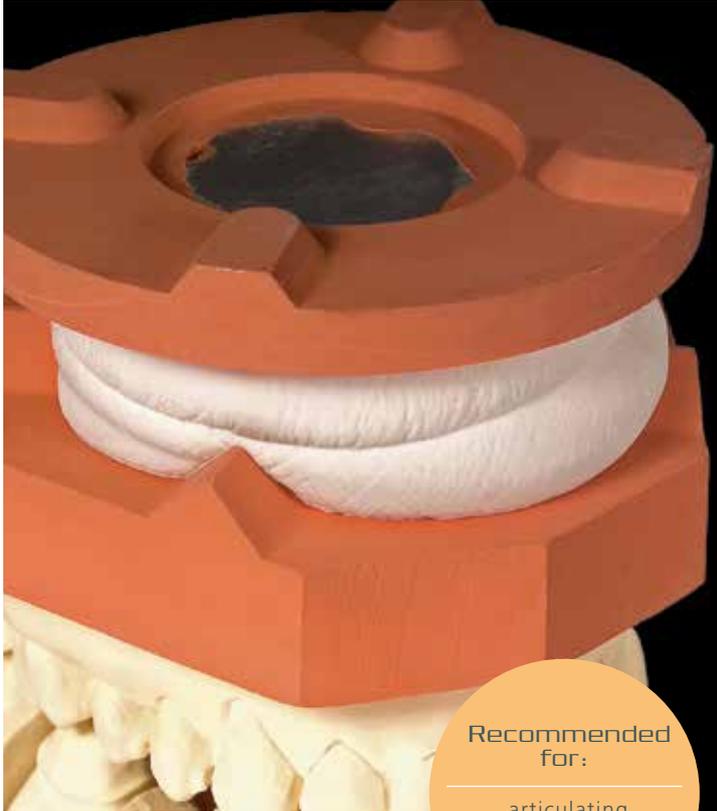
Technical specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	80
hardness after 24 h (MPa; N/mm ²)	90
compressive strength after 1 h (MPa; N/mm ²)	28
compressive strength after 1 h (psi)	4,060
setting expansion after 2 h (%)	< 0.03
working time (min)	1.0 - 1.5
end of setting (min)	approx. 10

*mixing ratio = powder : distilled water
www.shera.de

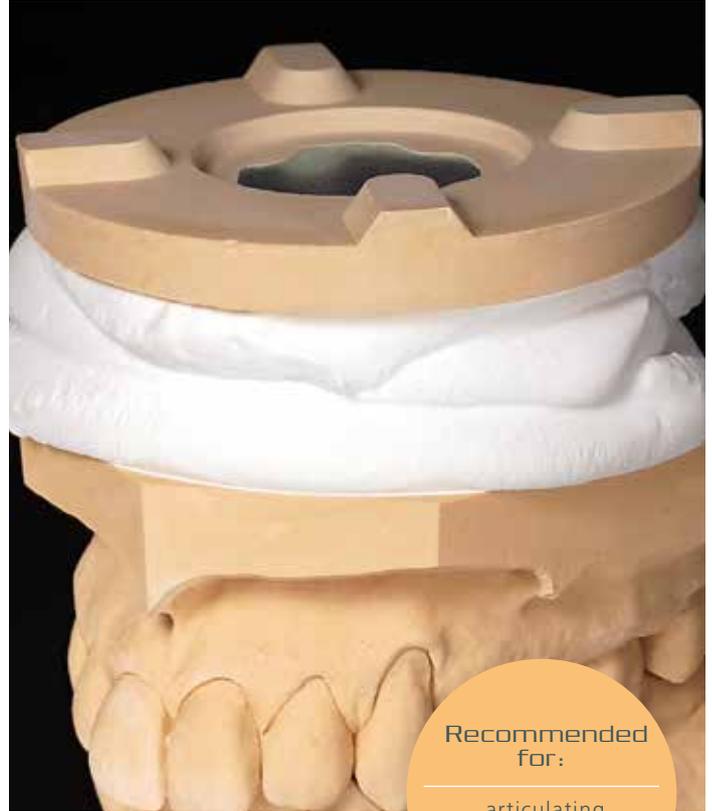


Articulating Plasters



Recommended for:

articulating milling bases over bites



Recommended for:

articulating cloud-layer technique 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 specifications

mixing ratio (p : dw)*	100 : 30
hardness after 2 h (MPa; N/mm ²)	80
hardness after 24 h (MPa; N/mm ²)	90
compressive strength after 1 h (MPa; N/mm ²)	29
compressive strength after 1 h (psi)	4,205
setting expansion after 2 h (%)	< 0.03
working time (min)	2.0 - 2.5
end of setting (min)	approx. 15

SHERAMOUNT

Articulating plaster

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

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

Technical specifications

mixing ratio (p : dw)*	100 : 40
hardness after 2 h (MPa; N/mm ²)	55
hardness after 24 h (MPa; N/mm ²)	60
compressive strength after 1 h (MPa; N/mm ²)	19
compressive strength after 1 h (psi)	2,755
setting expansion after 2 h (%)	< 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
- optimized for CAD/CAM 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, 50 ml SHERASEPARAT (separating agent)

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.

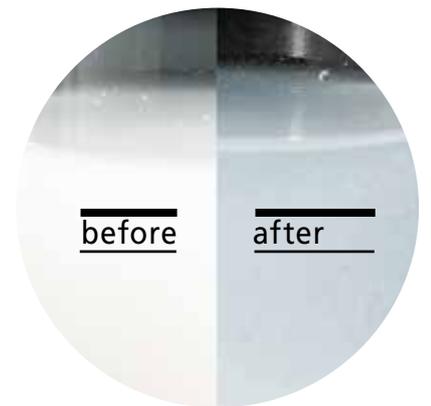
Unit

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 Specifications Stones / Plasters

Modelling stones 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, cream 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
Basing stones & special plaster	Special characteristics	Colours
SHERASOCKEL-FLÜSSIG	liquid consistency	bright blue, rich yellow, terra, turquoise, white, light green
SHERAEXPAND	for thermoplastic resins	white
Modelling stones type 3 + 2	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
SHERABIANCO	for snow-white orthodontic works	snow-white
SHERAKFO-GIPS	for orthodontic works	white
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



Technical Specifications Stones / Plasters

Mixing ratio (P : d W)*	Hardness after 2 h (MPa; N/mm ²)	Hardness after 24 h (MPa; N/mm ²)	Compressive strength after 1 h (MPa; N/mm ²)	Compressive strength after 1 h (psi)	Setting expansion after 2 h (%)	Working time (min)	End of setting (min)
100 : 20	300	320	70	10,150	< 0.10	5.0 - 6.0	approx. 30
100 : 20	310	340	64	9,280	0.10	6.0 - 7.0	approx. 30
100 : 20	300	320	62	8,990	0.10	6.0 - 7.0	approx. 30
100 : 20	310	330	70	10,150	0.08	6.0 - 7.0	approx. 30
100 : 20	270	290	60	8,700	0.10	4.5 - 5.5	approx. 30
100 : 23	250	270	57	8,265	0.10	4.5 - 5.5	approx. 30
100 : 20	300	320	57	8,265	0.10	6.0 - 7.0	approx. 30
100 : 20	300	320	68	9,860	0.18	6.0 - 7.0	approx. 35
100 : 25	190	210	48	6,960	0.14	approx. 2.5	approx. 10
Mixing ratio (P : d W)*	Hardness after 2 h (MPa; N/mm ²)	Hardness after 24 h (MPa; N/mm ²)	Compressive strength after 1 h (MPa; N/mm ²)	Compressive strength after 1 h (psi)	Setting expansion after 2 h (%)	Working time (min)	End of setting (min)
100 : 23	230	250	49	7,105	0.05	3.5 - 4.5	approx. 40
100 : 20	160	180	30	4,350	approx. 1.00	4.0 - 6.0	approx. 40
Mixing ratio (P : d W)*	Hardness after 2 h (MPa; N/mm ²)	Hardness after 24 h (MPa; N/mm ²)	Compressive strength after 1 h (MPa; N/mm ²)	Compressive strength after 1 h (psi)	Setting expansion after 2 h (%)	Working time (min)	End of setting (min)
100 : 30	110	120	45	6,525	0.15	2.5 - 3.0	approx. 10
100 : 30	120	140	46	6,670	0.15	4.0 - 5.0	approx. 25
100 : 30	100	110	44	6,380	0.15	3.5 - 4.0	approx. 20
100 : 28	120	140	41	5,945	0.15	5.0 - 6.0	approx. 20
100 : 30	100	130	39	5,655	0.15	5.0 - 6.0	approx. 25
100 : 45-50	36	40	18	2,610	0.18	2.0 - 3.0	approx. 20
Mixing ratio (P : d W)*	Hardness after 2 h (MPa; N/mm ²)	Hardness after 24 h (MPa; N/mm ²)	Compressive strength after 1 h (MPa; N/mm ²)	Compressive strength after 1 h (psi)	Setting expansion after 2 h (%)	Working time (min)	Setting time (min)
100 : 30	80	90	29	4,205	< 0.03	2.0 - 2.5	approx. 15
100 : 30	80	90	29	4,205	< 0.03	2.0 - 2.5	approx. 15
100 : 30	80	90	28	4,060	< 0.03	1.0 - 1.5	approx. 10
100 : 40	55	60	19	2,755	< 0.05	2.0 - 2.5	approx. 15

*mixing ratio = powder : distilled water



Impression Material Treatment



SHERARELAXA

Impression and surface tension release agent

- for alginate, polyether and silicone impressions
- improves the flow properties of stones 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

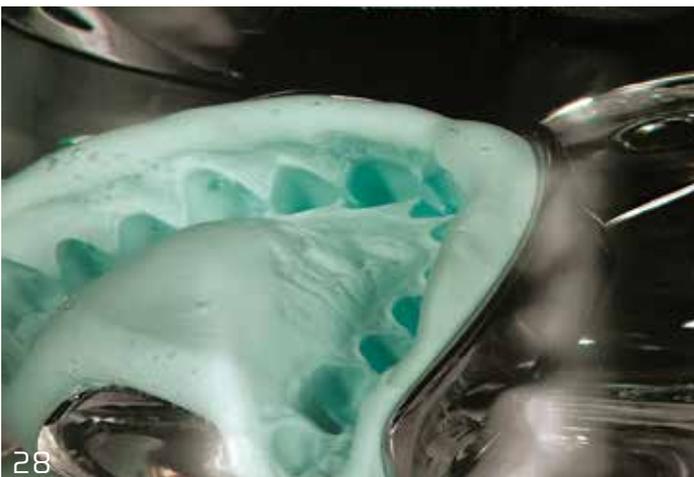


SHERAMASTER

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
- neutral odour

Item no.	Unit
709070	1 litre



IMPRESSION DISINFECTANT

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

CE 0123

- bactericide, yeasticidal, tuberculocidal, limited virucidal (enveloped viruses)
- drafting on an expert's test according to VAH directives
- disinfects surfaces from dental work pieces and moulds
- has an inactivating effect on HBV/HIV, HCV
- suitable for polyether, silicones, alginates and hydrocolloids

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
701082	16 ml refill bottle with brush
701087	20 ml can



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
701102	50 ml spray can
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: clear
- 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

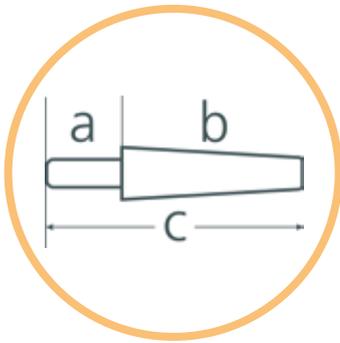


SILICONE SPRAY

Maintenance spray

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

Item no.	Unit
709165	400 ml spray can



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



DRILL

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

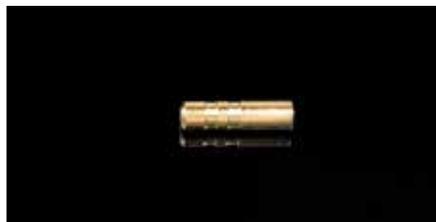
Item no. 942901
Unit 1 piece



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 for models for denture repairs
- very accurate in reproduction in detail, boil-proof
- dimensionally stable
- very homogeneous when kneading

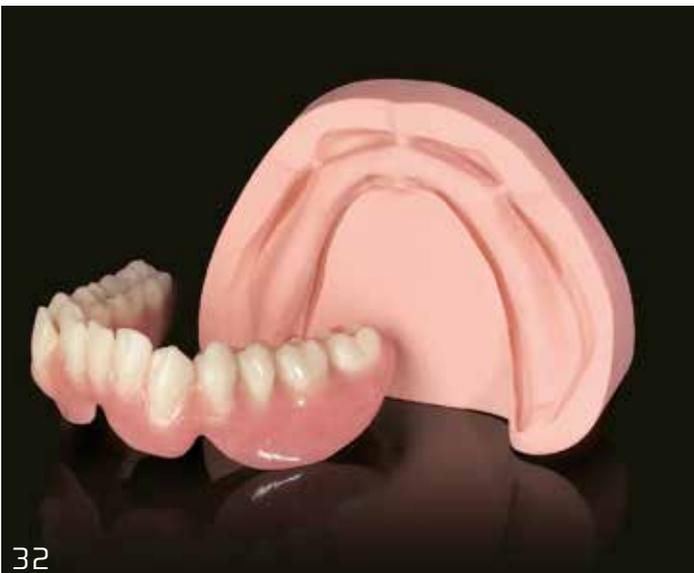
Item no.	Unit
301270	2 x 1.5 kg
301271	2 x 3 kg

SHERATANDEM 85

Silicone putty

- shore hardness A 85
- for the preparation of over bites as well as bite registrations and for 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
301241	2 x 3 kg



SHERADUETT-SOFT

Silicone putty

- shore hardness A 85
- for the preparation of over bites as well as bite registrations and for 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



Silicone Putties

Addition cure silicone putties 1 : 1



SHERATANDEM 90

Silicone putty

- shore hardness A 90
- for the preparation of over bites as well as bite registrations and for 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
301211	2 x 3 kg

SHERATANDEM 95

Silicone putty

- shore hardness A 95
- for the preparation of over bites as well as bite registrations and for models for denture repairs
- very accurate in reproduction in detail, boil-proof
- dimensionally stable
- very homogeneous when kneading

Item no.	Unit
301200	2 x 1.5 kg
301201	2 x 3 kg



SHERADUETT

Silicone putty

- shore hardness A 90
- for the preparation of over bites as well as bite registrations and for 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



SHERADUPLICICA

Silicone putty

- shore hardness A 85
- for isolating teeth against stone when flasking
- slightly oily
- very exact moulding
- dimensional stability, stable to boiling

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, stable to boiling

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

Condensation cure silicone putties



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
- stable to boiling
- 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
- suitable for implantological application
- application in mouth only in cured condition
- shore hardness A 70

Item no.	Unit
960201	Set consists of: 2 double cartridges each of 50 ml, 10 mixing nozzles 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, 50 ml SHERASEPARAT (separating agent)



MIXING GUN for 2-phase cartridges

Item no.	960301
Unit	1 piece



MIXING NOZZLES for 50 ml cartridges

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

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



INTRA ORAL TIPS

for mixing nozzles in pink

Item no.	960304
Unit	50 pieces



MILLING BUR for SHERAGINGIVAL

Item no.	960306
Unit	1 piece



Casting technique

38

Wax & Co.

43

Investments

51

Embedding
Accessories

54

Duplicating
materials

59

Alloys

65

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, modelled castings, individual implant abutments and bars as well as crowns and bridges for the pantographic transfer
- 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 intraoral 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

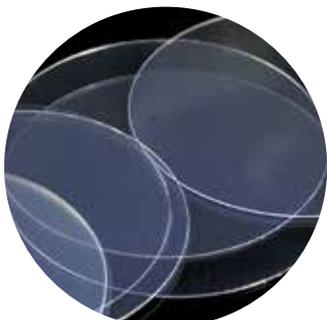
- serves as spacer between die and crown
- fast drying
- scratch resistant
- the layer of varnish does not soften when in contact with hot water or steam

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



AESTHETIC WAX

- ideally suited as a wax up
- 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

- 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
- for direct fitting control even in the patient's mouth
- suitable for pressable ceramics

CE

Item no.	Unit
974150	1 block of 50 g
974155	10 blocks 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)	

40



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

CE

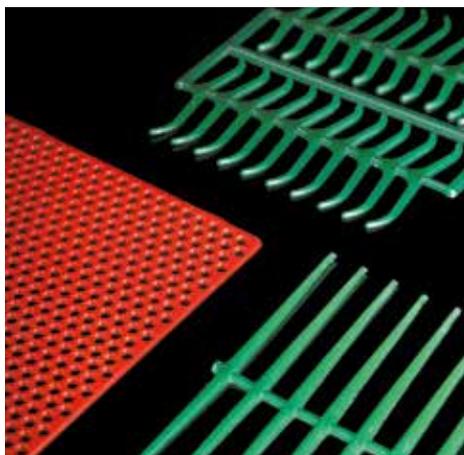
Item no.	Unit
974294	2.5 kg



PROFIL BARS ROUND

- ø 1.0 mm
- medium hardness

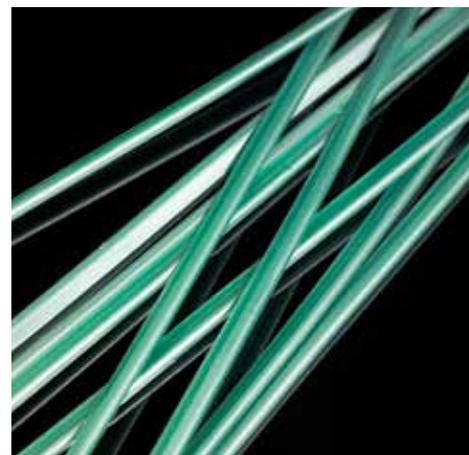
Item no.	Unit
974921 (emerald green)	38 g



WAX PATTERNS

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

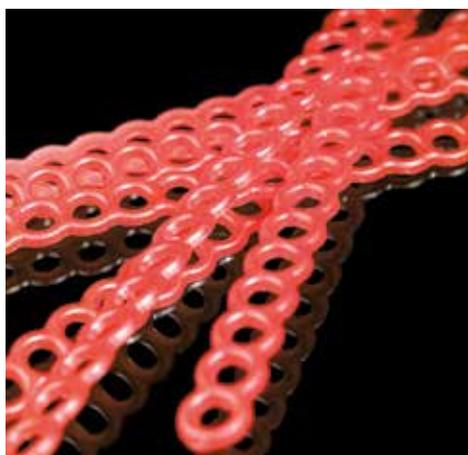
Item no.	Unit
974222	molar clasps, 10 sheets
974225	round grid retentions, 20 sheets
974226	ring clasps straight, 10 sheets



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

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

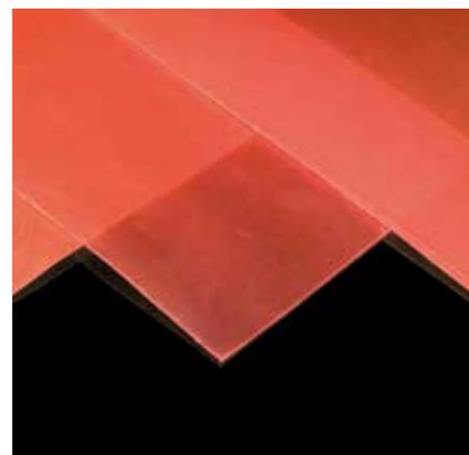
Item no.	Unit
974292	25 bars



CASTING WAX COARSE-VEINED

- for model casting
- high quality ductile
- simple 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 model casting
- elastic quality
- simple 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 highly technical products to meet the demands of precision investment casting. The technical characteristics of these high tech products convince.

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
 - 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 REFRACT

Refractory die material

- easy to control expansion
- longer 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





SHERA

UNDER PRESSURE



Special investment for press ceramic

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

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



Be enthusiastic about the precision of **SHERAFINA® 2000**

Start your precision casting with ardent zeal and rely on SHERAFINA® 2000. Using this high-tech investment you have full control with expansion giving extremely smooth surfaces. SHERAFINA® 2000 will enable you to

achieve perfect fitting results in every case - from a large bridge construction to a crown. Just trust in SHERA investments as we have an intensive care about dental casting.



SHERAFINA® 2000

Investment for crown and bridge technique

- premium quality for gold, gold telescopics, non-precious alloys and pressable ceramics
- very fine with a dense consistency for castings, the expansion is easy to control with results having a very smooth surface and exceptional precise fit
- used for shock heat process and the traditional slow 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 process and for the traditional slow heating process
- very fine and dense consistency
- for castings with very smooth surfaces
- for an exceptional precise fit

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



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 deinvesting 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 52.



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 with this new investment the friction between the primer and the second part can ideally be created.



SHERAFRIXION

- for telescopic crown and implant technique, for all kind of 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)



Special Investments

SHERAVEST RP

Investment for rapid prototyping

- phosphate bonded
- 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)



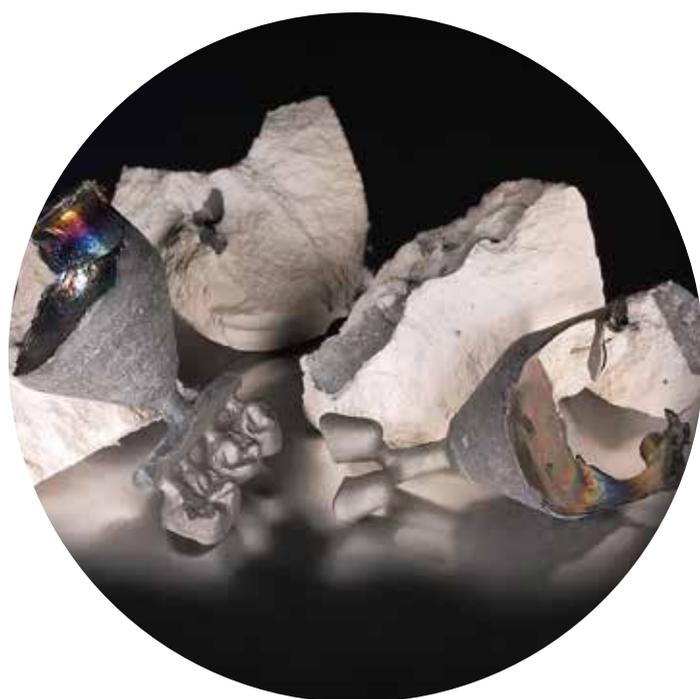
Allround concept



The 3D printing resin SHERAprint-cast and the investment SHERAVEST RP are perfectly matched with each other. You may find them on page 130.



Product video



SHERATITAN-EASY

Investment for pure titanium and titanium containing alloys

- for shock heat process and for the traditional slow 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 process and for the traditional slow 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 process and for the traditional slow 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)



Using a 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.



Expansion liquids



SHERALIQUID

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

SHERALIQUID EXTRA

Mixing liquid

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

Item no.	Unit
208020	1 litre

MEASURING CYLINDER

- measuring volume 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 SHERALIQUID in due time. The liquid is sensitive to cold and cannot be delivered at temperatures of less than +5°C.



Mixing ratios



- Which mixing ratio leads to the best results? On our homepage
- www.shera.de you 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 only thus makes highest precision possible.



SHERAMUFFELFORMER K&B

With sprue former

- reusable multiple times
- facilitates the expansion of the investment

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

SHERAMUFFELFORMER M6

Without sprue former

- reusable multiple times
- facilitates the expansion of the investment

Item no.	Unit
926105	1 piece



SHERABIO-MUFFELVLIES

Bio casting ring liner

- 50 x 1 mm
- 25 metres per roll
- protects the muffles made of cellular rubber against abrasion
- enables an increased porosity of silicone muffles
- well-tolerated AES wool
- extra thick and soft
- yields to expansion

Item no.	Unit
926211	1 roll



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

THINNER

for SHERAPOR-L

Item no.	Unit
926303	500 ml

SHERAMODELLHAFT-GRUND

Model adhesive

- clear
- improves the adhesion of wax to the surface of investment models

Item no.	Unit
709132	30 ml bottle with brush

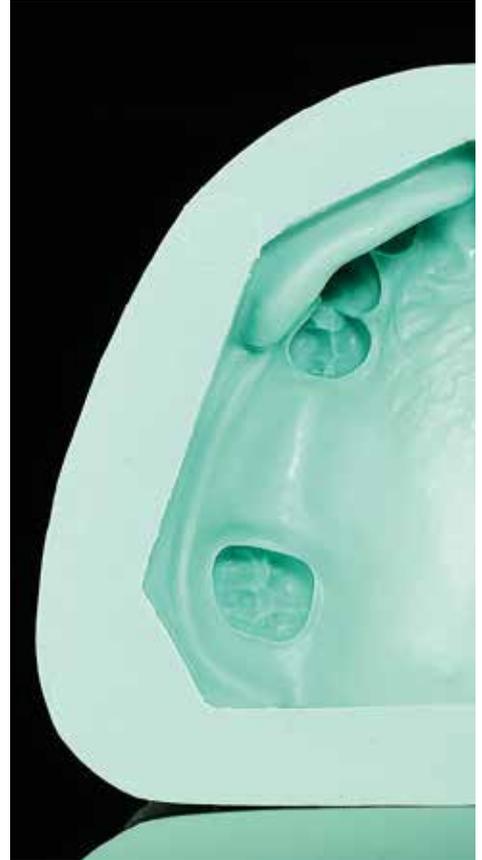




Silicone duplicating materials

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

Item no.	Unit
321140	2 x 1 kg

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

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

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
321010	2 x 1 kg
321011	2 x 5 kg

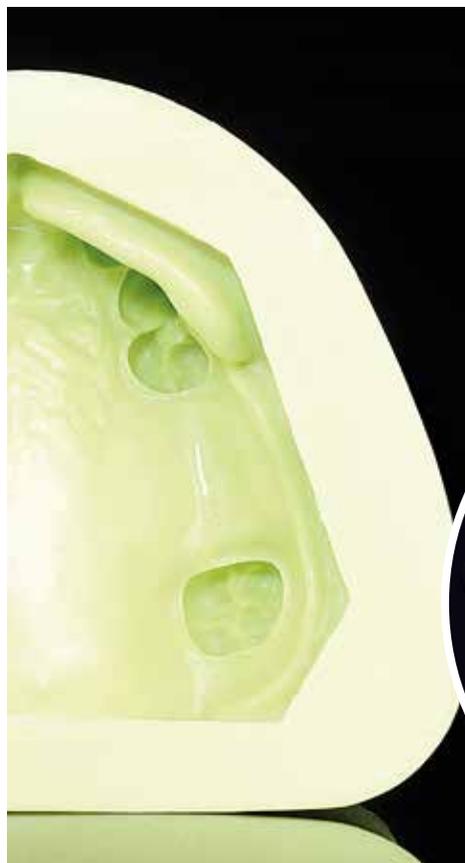


Silicone duplicating materials



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 28.



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
321071	2 x 5 kg

DUPLICATING FLASK

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

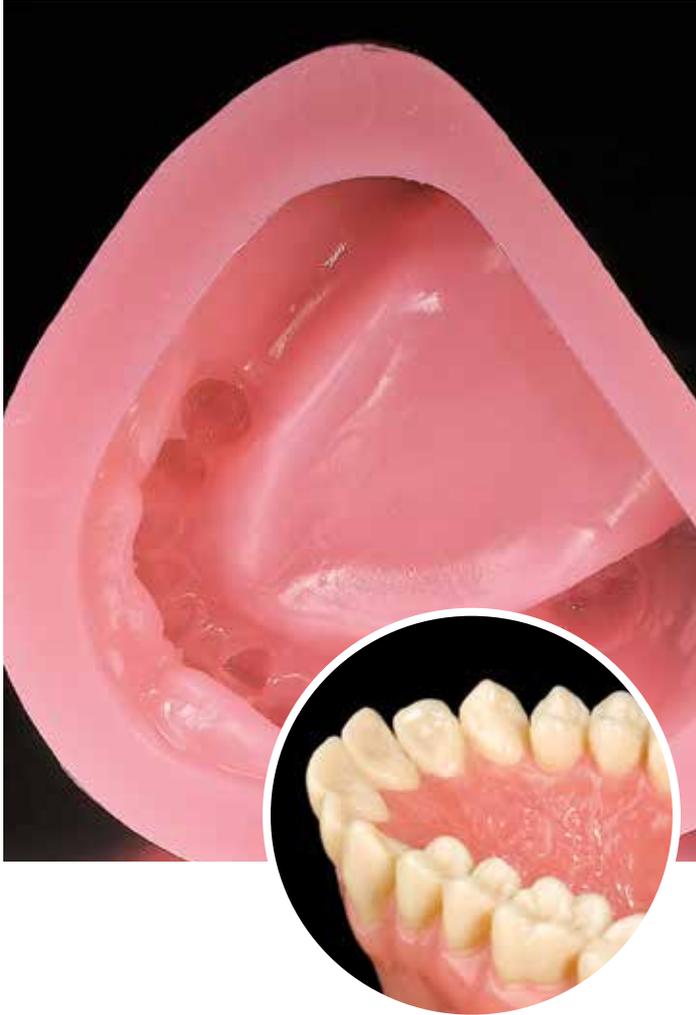
Item no.	Unit
922120	1 piece (four-piece)



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 cobalt chrome models

- 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 cobalt chrome models

- 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!







Alloys

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

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



Crown and Bridge Alloys

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

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

CE 0123

Technical specifications

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 (°C)	1,417
solidus point (°C)	1,309
casting temperature (°C)	1,520
coefficient of expansion (25-600°C)	$14.6 \times 10^{-6} \text{ K}^{-1}$

Composition in %

chrome	21
cobalt	64
molybdenum	6
tungsten	6
further elements below 1 %	Fe, Mn, Si



Crown and Bridge Alloys



SHERAALLOY-NP

Non-precious bonding alloy €€ 0123

- 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

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

Technical specifications

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 (°C)	1,370
solidus point (°C)	1,310
casting temperature (°C)	1,430
coefficient of expansion (25-600°C)	$14.0 \times 10^{-6} \text{ K}^{-1}$

Composition in %

chrome	24
cobalt	63
tungsten	8.1
molybdenum	2.9
silicon	1.1
further elements below 1 %	Nb

SHERAALLOY-EO5

Non-precious bonding alloy €€ 0123

- high value cobalt chrome alloy
- coefficient of expansion: $14.5 \times 10^{-6} \text{ K}^{-1}$
- suitable for laser welding

Item no.	Unit
402050	100 g
402051	250 g
402053	1000 g

Technical specifications

vickers hardness (HV 10)	285
density (g/cm ³)	8.5
tensile strength (N/mm ²)	525
0.2-yield strength (N/mm ²)	375
elongation limit A ₅ (%)	14.7
modulus of elasticity (N/mm ²)	240,000
liquidus point (°C)	1,418
solidus point (°C)	1,410
casting temperature (°C)	1,475
coefficient of expansion (25-500°C)	$14.5 \times 10^{-6} \text{ K}^{-1}$

Composition in %

chrome	28
cobalt	62
tungsten	8.5
silicon	1.6
further elements below 1 %	Fe, Mn

SHERAALLOY-NI

Nickel chrome bonding alloy €€ 0123

- highest fitting accuracy with low hardness
- very good price-performance ratio
- coefficient of expansion: $14.1 \times 10^{-6} \text{ K}^{-1}$
- suitable for laser welding

Item no.	Unit
402133	1000 g

Technical specifications

vickers hardness (HV 10)	180
density (g/cm ³)	8.2
0.2-yield strength (N/mm ²)	345
elongation limit A ₅ (%)	25
modulus of elasticity (N/mm ²)	200,000
liquidus point (°C)	1,330
solidus point (°C)	1,250
casting temperature (°C)	1,390
coefficient of expansion (20-600°C)	$14.1 \times 10^{-6} \text{ K}^{-1}$

Composition in %

chrome	24.5
nickel	62.7
molybdenum	10.0
silicon	1.4
iron	1.0
further elements below 1 %	-



SHERA HEAVY-METAL



Product video



Continuous casting

- universal top quality alloy of SHERA
- improves the fitting of combination works and clasp dentures
- provides an increased stability, but a lower elongation limit
- physical properties prevent elastic and plastic deformations
- suitable for laser welding

CE 0123

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 specifications

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.



SHERALIT-IMPERIAL

Continuous casting

- proven top quality
- for removable partial and combination dentures
- suitable for laser welding

CE 0123

Item no.	Unit
401013	1000 g

Technical specifications

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, Nb

SHERALIT-ELASTIC

Continuous casting

- exceptional elasticity
- ideal for removable partial dentures
- suitable for laser welding

CE 0123

Item no.	Unit
401023	1000 g

Technical specifications

vickers hardness (HV 1)	335
density (g/cm ³)	8.3
tensile strength (N/mm ²)	718
0.2-yield strength (N/mm ²)	368
elongation limit A ₅ (%)	12
modulus of elasticity (N/mm ²)	207,000
liquidus point (°C)	1,413
solidus point (°C)	1,320
casting temperature (°C)	1,550

Composition in %

chrome	28
cobalt	64
molybdenum	6,0
further elements below 1 %	C, Fe, Mn, Nb, Si



Model Casting Alloys



SHERALIT-CYLINDRA

Continuous casting

- universal alloy
- favourable price-performance ratio
- suitable for laser welding

CE 0123

Item no.	Unit
401043	1000 g

Technical specifications

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



SHERANAXOS

Continuous casting

- optimal for combination dentures
- slightly increased elasticity
- suitable for laser welding

CE 0123

Item no.	Unit
401063	1000 g

Technical specifications

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



Soldering / Lasing

SHERALOT-N

Solder bar CE 0123

- for all non-precious alloys
- all-purpose
- can be fused

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



SHERAFIRE

Fuel paste for fixing crowns, bridges, veneers, onlays and inlays

- stable burning up to 1400°C
- solvent free
- dilutable with water

Item no.	Unit
934250	20 ml syringe

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

- for all non-precious alloys
- for chrome casting alloys
- can be fused

Item no.	Unit	CE
934301	7 bars à 25 cm (ø 0.5 mm)	0086
934311	2 metre roll (ø 0.35 mm)	0124
934321	2 metre roll (ø 0.5 mm)	0124

Preparation for Ceramic Works



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





Finishing

68

Abrasives

69

Occlusion
Sprays

70

Cutting
Discs

72

Polishers

74

Polishing
Agents

77

Brushes



Abrasives

SHERA abrasives are of the highest standard of quality and degree of purity possible. The hygroscopic abrasives

are packed in 5 kg bags for protection against moisture. 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 rest of investments quickly

Item no.	Unit
601011	25 kg



SHERAALUMINIUMOXID

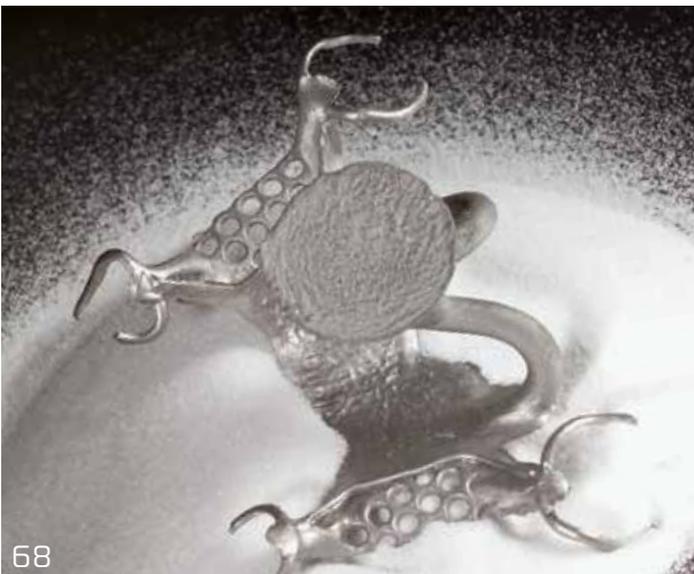
99.7 % aluminium oxide

- 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)



SHERAKOMBI

Combination abrasive

- colour: white
- graining: 100 – 250 µm
- for sandblasting, smoothing and matt smoothing of chrome castings
- optimised for sandblasting titanium frames
- eliminates the need for shining in an electrolyte bath

Item no.	Unit
605010	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

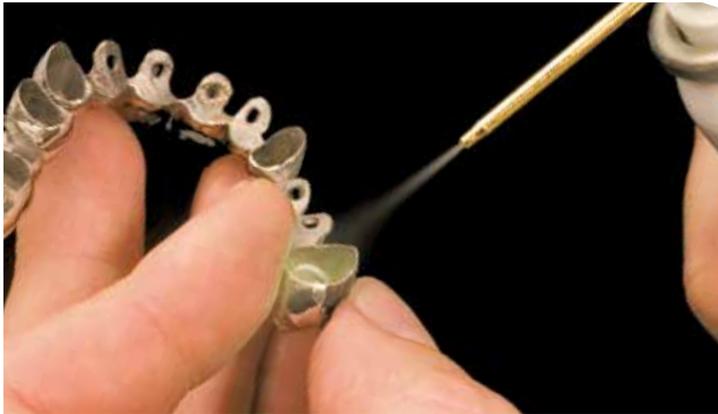
graining:

- 125 µm for non-precious alloys
- 50 µm for precious metal, 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

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

CONTACTSPRAY

Occlusion spray



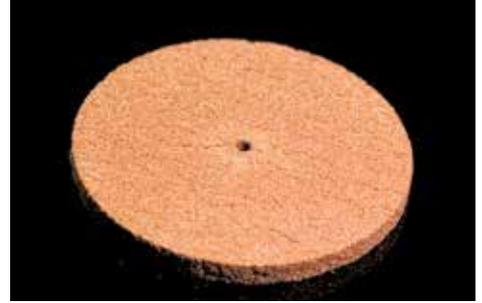
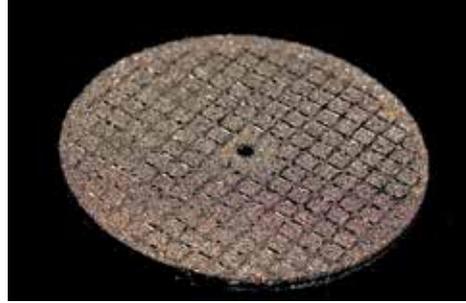
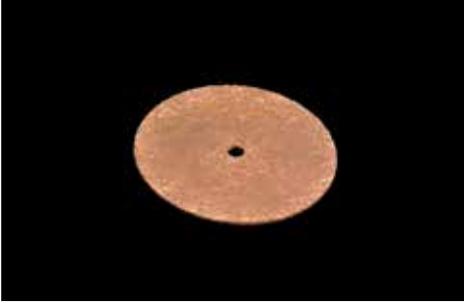
- homogeneous micro powder layer
- contact points can be marked exactly
- does not smear or flake
- can easily be washed or steam cleaned off
- free of solvents, grease or CFC

Item no.	Unit
914101 (green)	75 ml spray can
914102 (red)	



Cutting Discs

STANDARD-LINE



CUTTING DISCS

- 22 x 0.6 mm
- for steel and non-precious metal
- flexible
- long service life
- \curvearrowright 10,000

Item no.	Unit
970201	100 pieces

CUTTING DISCS

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

Item no.	Unit
970205	10 pieces

GRINDING DISCS

- 37 x 3.0 mm
- \curvearrowright 10,000

Item no.	Unit
970206	25 pieces

ECO-LINE

CUTTING DISCS

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

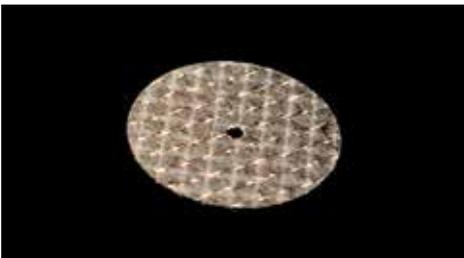
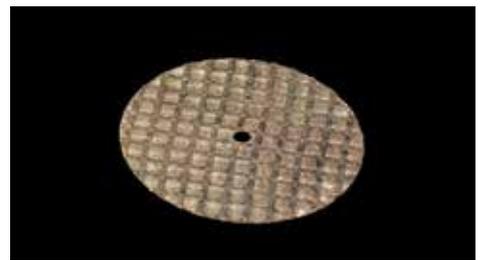


- 22 x 0.2 mm
- \curvearrowright 50,000

Item no.	Unit
970151	50 pieces

- 26 x 0.3 mm
- \curvearrowright 50,000

Item no.	Unit
970253	25 pieces

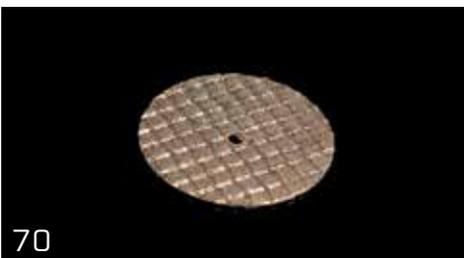
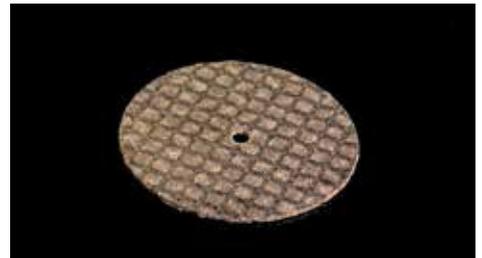


- 22 x 0,3 mm
- \curvearrowright 50,000

Item no.	Unit
970153	50 pieces

- 26 x 0.5 mm
- \curvearrowright 50,000

Item no.	Unit
970254	25 pieces

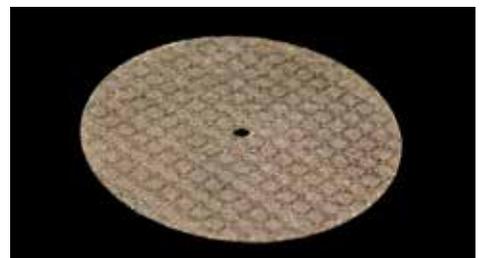


- 22 x 0.5 mm
- \curvearrowright 50,000

Item no.	Unit
970155	25 pieces

- 40 x 0.5 mm
- \curvearrowright 38,200

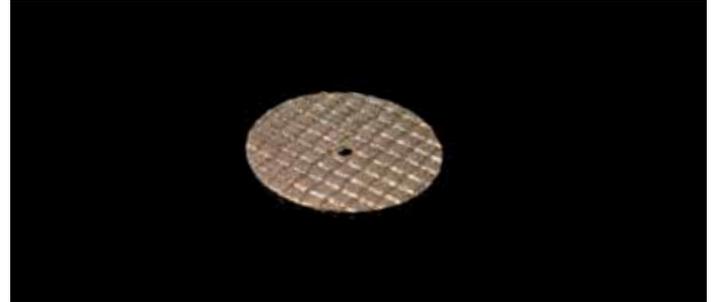
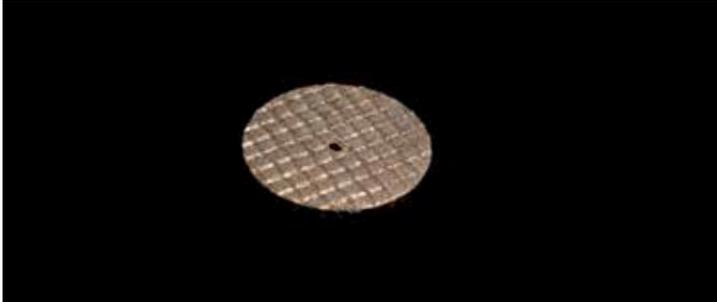
Item no.	Unit
970255	10 pieces





Cutting Discs

ECO-LINE



DIAMOND CUTTING DISCS

- for ceramic
- glass-fibre reinforced
- high cutting performance

- 20 x 0.25 mm
- \curvearrowright 50,000

Item no.	Unit
970161	10 pieces

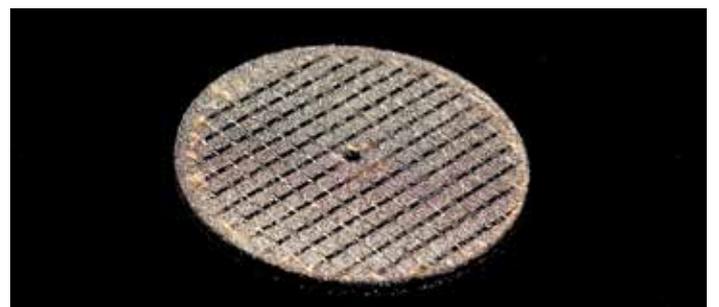
DIAMOND CUTTING DISCS

- for ceramic
- glass-fibre reinforced
- high cutting performance

- 20 x 0.3 mm
- \curvearrowright 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
- \curvearrowright 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
- \curvearrowright 35,000

Item no.	Unit
970210	10 pieces

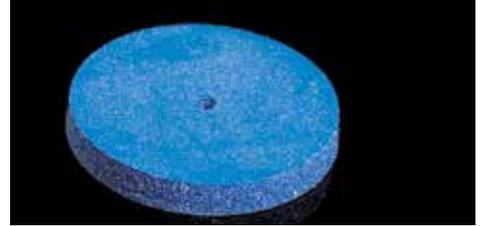


Polishers

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
- \curvearrowright 20,000
- fine-grained, soft

Item no. 950101 Areas of application
Unit 100 pieces

WHEEL WHITE

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

Item no. 950110 Areas of application
Unit 100 pieces



WHEEL GREY

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

Item no. 950307 Areas of application
Unit 25 pieces

LENS WHITE

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

Item no. 950111 Areas of application
Unit 100 pieces



ROLLER WHITE

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

Item no. 950103 Areas of application
Unit 100 pieces

ROLLER WHITE

Silicone polisher
- \varnothing 7 mm
- pre-polishing
- \curvearrowright 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
- \curvearrowright 20,000
- medium-grained

Item no. 950107 Areas of application
Unit 100 pieces



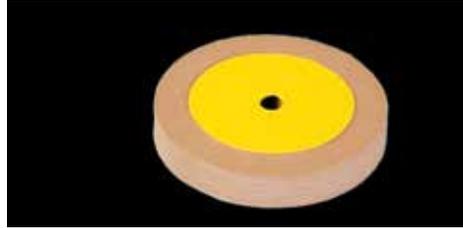
Polishers



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



OCCUSAL POLISHER RED

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

Item no. 950305 Areas of application
 Unit: 100 pieces



OCCUSAL 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. For all dental work's surfaces we offer a perfectly matching polishing agent.



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
- 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
- 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
- especially appropriate for TSM ACETAL DENTAL and SMILE-CAM
- fast and economic

Item no.	Unit
954110	approx. 100 g bar



Polishing Agents



SHINE
BRIGHT
LIKE A
DIAMOND



without with

SHERADIALUX

Diamond polishing paste

Zirconium that shines naturally and reflects rays of light like a brilliant? Surfaces of non-precious metal or ceramic that look very noble after being brightly polished? All this can be achieved in just a few seconds with SHERADIALUX, the excellent polishing paste for dental work made of zirconium, non-precious metal or ceramic.

Thanks to different grain sizes of the diamond powder in SHERADIALUX, polishing is succeeded from coarse to very fine in one step without removing noticeable material. The polishing paste is packed in a valuable glass container and very easy to handle. Shine bright with SHERADIALUX!

Item no.	Unit	Colour
954230	20 g	grey



Polishing Agents



SHERABIMSSTEINPULVER

- 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
954211	100 g tube
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



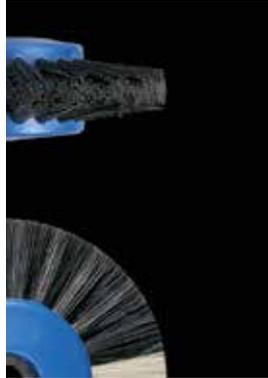
65 mm

2-row brush

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

Item no. 910101

Unit 1 piece



55 mm

3-row brush

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

Item no. 910203

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



55 mm

3-row brush with wooden hub

- for polishing of acrylics and metals
- pointed

Item no. 910208

Unit 1 piece

CHUNGKING BRISTLES

HORSE'S HAIR

GOAT'S HAIR



48 mm

Slim brush

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

Item no. 910209

Unit 1 piece



36 mm

Slim brush

- for hard-to-reach spaces
- very hard, ground short and pointed
- black

Item no. 910206

Unit 1 piece



45 mm

1-row brush

- 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

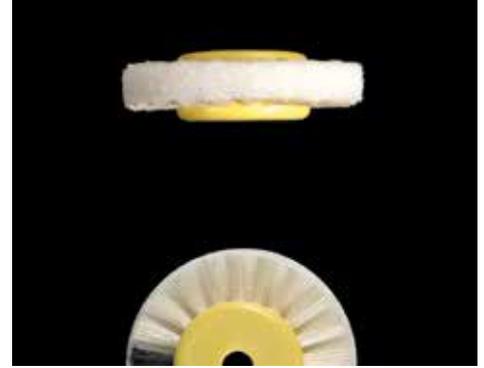
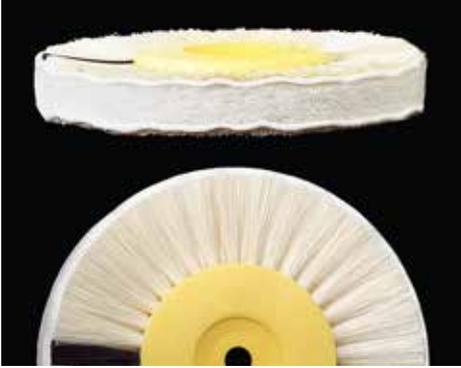
Item no. 910210

Unit 1 piece



Brushes

SPECIAL LINING



80 mm

5-ply brush

- for pre-polishing of acrylic
- chungking 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 prosthesis (PMMA) and composites
- high polishing effectiveness

Item no.	910105
Unit	1 piece

80 mm

3-ply brush

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

Item no.	910104
Unit	1 piece

45 mm

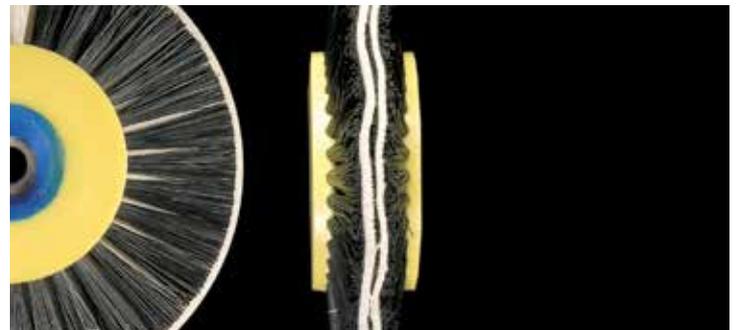
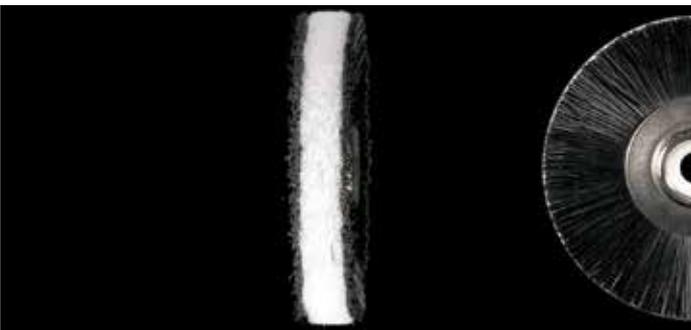
3-ply brush

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

Item no.	910201
Unit	1 piece

SPECIAL LINING

NETTLE CLOTH LINING



48 mm

3-ply brush

- for pre-polishing of acrylic
- black chungking bristles with special textile lining

Item no.	910204
Unit	1 piece

80 mm

5-ply brush

- for pre-polishing of acrylic
- chungking 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 metals and acrylic

Item no. 910402

Unit 1 piece



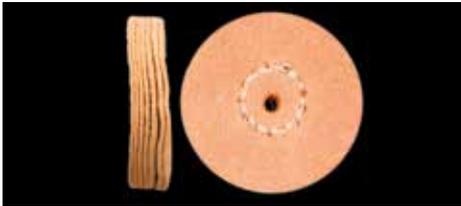
POLISHING NETTLE CLOTH BUFFER 100 mm

ZETA-tissue, 15-layers

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

Item no. 910405

Unit 1 piece



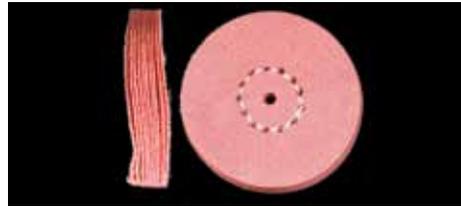
FELT BRUSH HP ORANGE 22 mm

Hand piece brush, pre-polishing

- for pre-polishing acrylics and veneering 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 acrylics and veneering composites
- 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



BRUSH HP

Hand piece brush

- chunking bristles
- black
- ∅ 10,000

Item no. 910308

Unit 12 pieces



CHUNGKING BRISTLE HP 19 mm

Hand piece brush

- unmounted
- black
- ∅ 10,000

Item no.

Unit

910306 (∅ 19 mm)

12 pieces



HORSE'S HAIR HP 19 MM

Hand piece brush

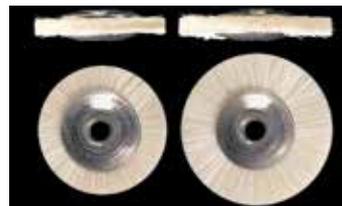
- unmounted
- mottled
- ∅ 10,000

Item no.

Unit

910315 (∅ 19 mm)

12 pieces



GOAT'S HAIR HP 16 mm / 19 mm

Hand piece brush

- unmounted
- white
- ∅ 10,000

Item no.

Unit

910302 (∅ 16 mm)

12 pieces

910307 (∅ 19 mm)



NETTLE CLOTH BUFFER HP 19 mm

Hand piece brush

- unmounted
- ∅ 8,000 - 12,000

Item no.

Unit

910304 (∅ 19 mm)

12 pieces



Acrylics

82

Denture
Acrylics

84

Orthodontic
Acrylic

84

Separating
Agent

85

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 discretely by cold cure acrylic.



SHERAPRESS

Cold cure acrylic

CE 0123

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

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

LIQUID for SHERAPRESS

CE 0123

Item no.	Unit
508020	500 ml
508021	1000 ml

SHERAPRESS-FLEX

Cold cure acrylic

CE 0123

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

Item no.	Unit
502060 (pink)	1 kg

LIQUID for SHERAPRESS-FLEX

CE 0123

Item no.	Unit
508030	500 ml



Smoother and more aesthetic acrylic surfaces



Applying the SILICONESPRAY 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 30.



Denture Acrylics

SHERADON

Heat cure acrylic

CE 0123

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

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

LIQUID for SHERADON

CE 0123

Item no.	Unit
508010	500 ml



SHERAFINISH

Acrylic denture cleaner

CE

- 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

Item no.	Unit
990101	75 ml spray can



SHERACOAT

Light-curing one component gloss

CE 0123

- biocompatible
- seals the surface of casting resins
- colour: clear

Item no.	Unit
709180	10 ml bottle



Orthodontic Acrylic



SHERAORTHOMER

Cold cure acrylic

CE 0123

- for dough and casting technique
- for orthodontic works
- hardens homogeneously
- very durable
- exceptionally stable

Item no.	Unit
504010	1 kg

LIQUID for SHERAORTHOMER

CE 0123

Item no.	Unit
508040 (pink)	500 ml
508050 (clear)	



Orthodontic plasters

The corresponding orthodontic plasters are presented on page 22. Just rely on manufacturer's high quality!



Separating Agent



SHERATEC

Separating agent based on alginate

- colour: clear
- 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



Tray Materials

LIGHT CURE TRAY MATERIAL

Tray material

- pre-formed sheets
- for production of individual trays
- easy to adapt
- highly dimensionally stable

CE

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

CE

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



LIQUID

for SHERATRAY

CE

Item no.	Unit
508080	500 ml



SHERALÖFFEL-FLUID

Cleaning fluid for light cure tray materials

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

Item no.	Unit
702225	500 ml



Miscellaneous

88

Cleaning
Agents

90

Skin
Care

91

Brushes



Cleaning Agents



SHERASON 929

Alginate solvent, concentrated liquid

- cleans all trays, mixing bowls and tools
- does not corrode metal
- the product 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, cements, stones / plasters, investments, oxides and fluxing agents
- 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
- recommended mixing ratio 1:100
- biodegradable

Item no.	Unit
702230	1 litre
702231	5 litres



Cleaning Agents



SHERASON 925

Ultra sonic cleaner

- for laboratories, surgeries, offices and households
- concentrate, can be diluted 1:10 with water
- cleans all materials
- very effectively
- does not corrode metal surfaces

Item no.	Unit
702050	1 litre
702051	5 litres

SHERASONIC

Environmentally friendly ultrasonic cleaner

- biodegradable
- for laboratories, surgeries, offices and households
- concentrate, can be diluted 1:10 with water
- cleans all materials
- very effectively
- does not corrode metal surfaces

Item no.	Unit
702100	1 litre
702101	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 an universal cleaning agent – everything will be brightly polished in a very short time!





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 crub beads
- provides the skin with valuable moisturising substances
- fresh lemon fragrance
- contains aloe vera
- supports 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



Skin Care & Brushes

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, shea butter
- without silicones
- protects against acids, lyes, disinfectants, methacrylics, 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 complete and synchronised programme. It involves intraoral, impression as well as model scanners, digitally designing up to the realisation by additive as well as subtractive procedures. While choosing single components, we focused on an open system. This allows you to enter the modern CAD/CAM technology at any skill level while staying independent and flexible.



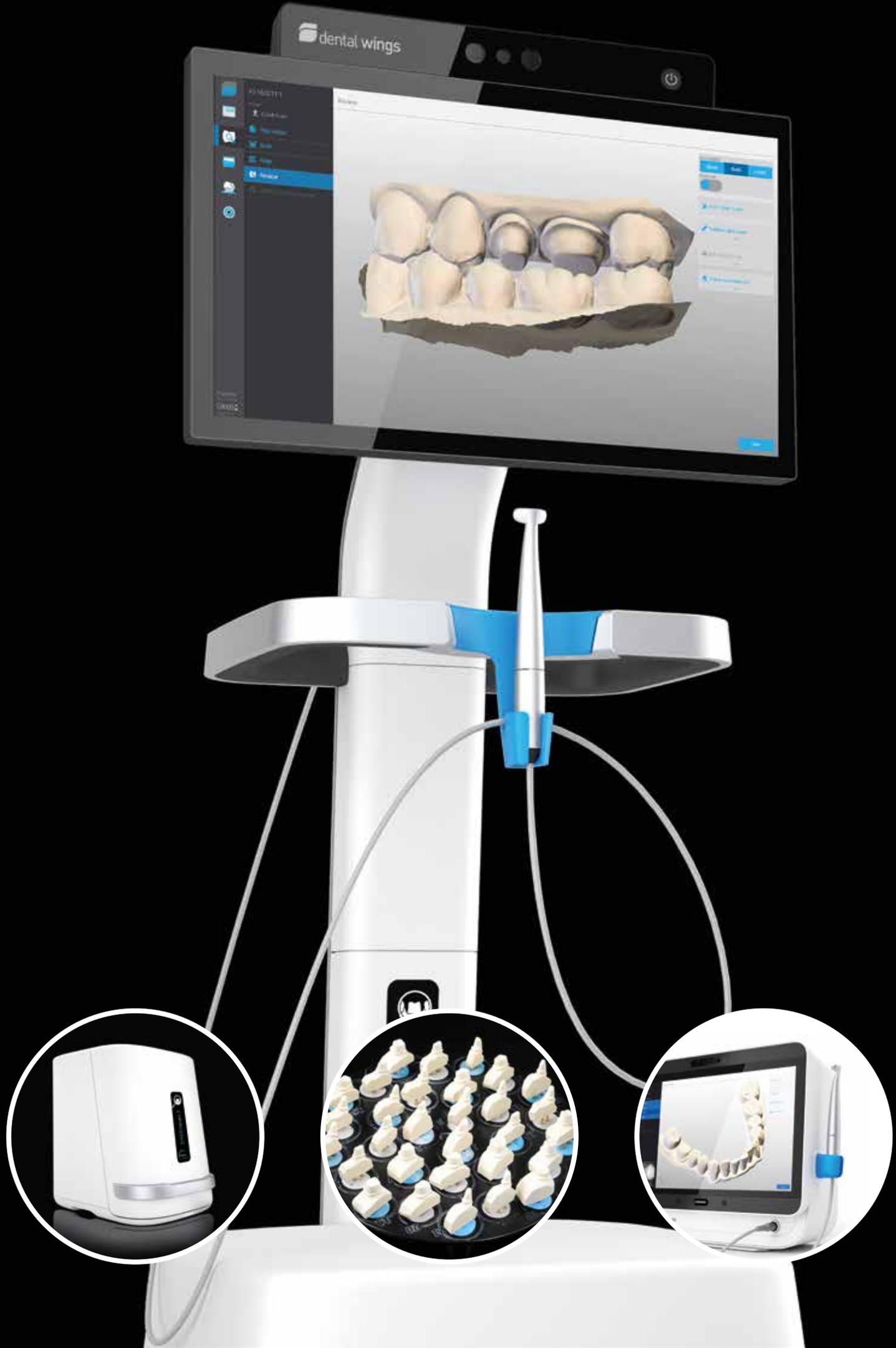
Scanning

97

Scanners

106

Software





Scanners

We offer you three scanner models: the intraoral scanner with the currently smallest handpiece worldwide as well as two model scanners with different range of services. They meet highest demands in scanning results and offer an abundance of possibilities.





SHERAscan io

Intraoral scanner

- Multiscan Imaging™
- with 10 measuring cameras and 5 LEDs
- output of open STL files
- extremely small handpiece
 - length: 198 mm
 - weight: 105 g (250 g with cable)
 - scanner head: 27.4 x 5.3 x 11.6 mm (W x H x D)
- heated handpiece with Status-LED ring
- 21" Multi-Touch-Monitor
- voice and gesture control
- intuitive handling
- acoustic and visual feedback during scanning
- WLAN
- integrated Windows 10, 64 bit, Core i7, 16 GB RAM
- dimensions: 460 x 1270 x 520 mm (W x H x D)
- scanner input: 100 – 240 V, 50 - 60 Hz, 540 VA
- weight: approx. 38 kg
- item no. SD101100

Product video



SHERAscan io portable

also available as portable version

- weight approx. 12 kg
- item no. SD101101







SHERAscan 7

Dental model and impression scanner

- output of open STL files
- laser technology
- integrated Windows 7 PC, 64-bit
- 2 measuring cameras, 1 video camera
- measuring accuracy < 15 µm
- simultaneous scanning and designing, parallel processing of multiple tasks
- provides space for own design ideas
- individual desired parameters can be saved
- dimensions: 380 x 480 x 490 mm (W x H x D)
- weight: approx. 22 kg
- item no. SD101001

Productivity version:

Impression scan, virtual articulator, multi-die function for 30 dies, crown and bridge designer, abutment and bar designer, partial framework designer, virtual model builder, rapidprototyping.

The Productivity version can be upgraded by further modules.

Synergy version:

Impression scan, virtual articulator, multi-die function for 30 dies, crown and bridge designer, abutment and bar designer, partial framework designer, virtual modelbuilder, rapid-prototyping, orthodontic archiving, splint designer, total prosthetics designer, preoperative implant planning (coDiagnostiX).





SHERAscan 3

Dental model scanner

- output of open STL files
- laser technology
- integrated Windows 7 PC, 64-bit
- 1 measuring camera, 1 video camera
- measuring accuracy < 15 µm
- simultaneous scanning and designing, parallel processing of multiple tasks
- provides space for own design ideas
- individual desired parameters can be saved
- compatible with original scan bodies of various manufacturers
- virtual articulator and multi-die function for 12 dies included
- dimensions: 340 x 450 x 400 mm (W x H x D)
- weight: approx. 20 kg

The following software packages are available:

Scan only Edition:	Silver Edition:	Gold Edition:	Platinum Edition:
without software	included crown and bridge designer	included crown and bridge designer, abutment and bar designer, virtual model builder	included designer, abutment and bar designer, virtual model builder, rapid-prototyping, partial framework designer, splint designer, total prosthetics designer, orthodontic archiving,
Item no. SD101000	Item no. SD108130	Item no. SD108131	Item no. SD108132



Technical data scanner

✓ included
+ upgrade



Scanner specifications

	SHERAscan 7	SHERAscan 3
Scanner including software package	✓	✓
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	15	10
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

✓
✓
✓
✓
✓
✓
✓
✓
✓
✓
✓

Upgrades

	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)

Productivity	Synergy
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
+	✓
+	✓
+	✓
+	✓

Silver	Edition Gold	Platinum
✓	✓	✓
+	✓	✓
+	✓	✓
+	+	✓
+	+	✓
+	+	✓
+	+	✓
+	+	+



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 scans

impression scans

model scans

applications



outgoing data

3D printing

milling

casting

(Internal or external processes of service providers 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 (coDiagnostiX)

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



Printing

111

3D printers

121

Light curing
units

123

Printing
materials

134

Accessories



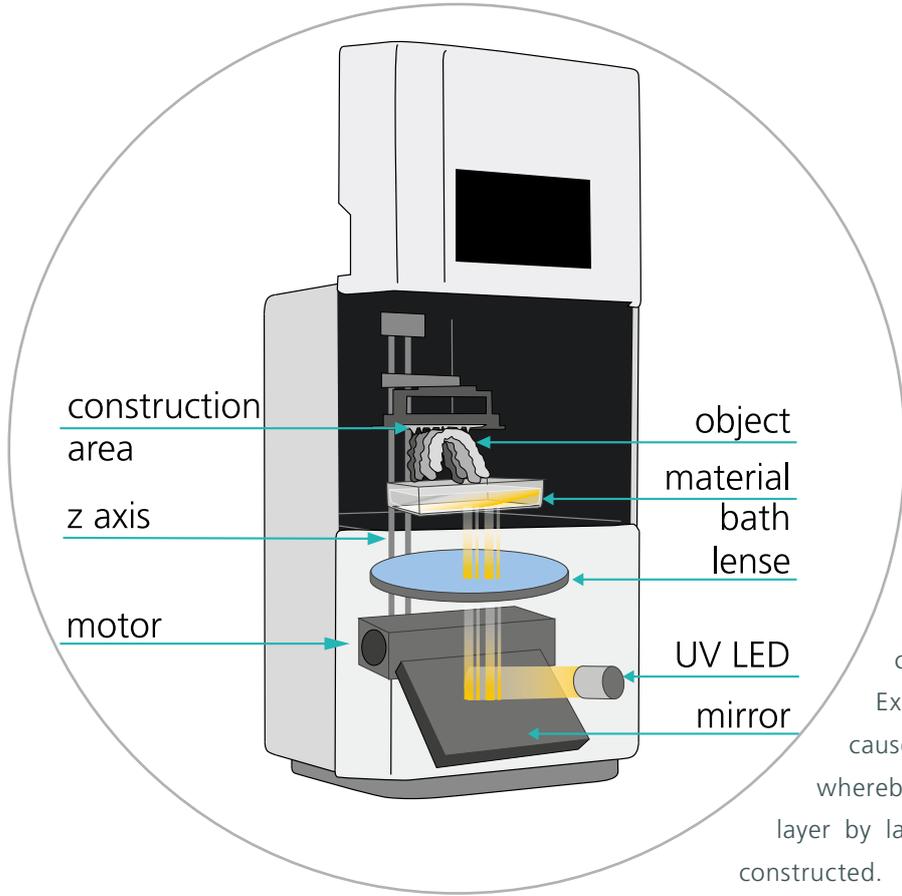


SHERAprint- the right model for everyone

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 mature for dentistry. 3D printers from SHERA are available in three versions - from the entry-level model to the industrial version. They are based on the Rapid Shape equipment technology, a Swabian machine manufacturer with a wealth of experience in additive manufacturing. We have combined the profound knowledge from the manufactory with our decades of experience in dental technology. A lot of SHERA know how, also from the field of material competence, is implemented in the SHERAprint system. Thus the print parameters are already preset and allow the user to print precise and reliable results from day one. 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

In terms of print series, the SHERAprint features a multitude of tiny mirrors, which 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 one another, layer by layer, until the printed object has been fully constructed.

The SHERAprint software calculates also 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.

Force Feedback Technology for precision

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 divides 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 coordinated for each material - for highest precision of the printing results.





SHERAprint 20

3D printer

- DLP process with long-lasting LED
- patented Force Feedback Technology (optional)
- RFID material identification
- integrated 7" display
- 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:	130 x 75 mm
Resolution:	HD 1920 x 1080 pixel (native pixels \pm 34 μ m)
Max. construction height:	90 mm
Light source:	UV LED 385 nm
Layer thickness:	50 and 100 μ m standard (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:	110 - 250 V, 50/60 Hz
Dimensions:	335 x 541 x 349 mm (W x H x D)
Weight:	approx. 33 kg
Item no.:	SD104012



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" display
- integrated 10" touch LCD monitor
- 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:	130 x 75 mm
Resolution:	HD 1920 x 1080 pixel (native pixels \pm 34 μ m)
Max. construction height:	110 mm
Light source:	UV LED 385 nm
Layer thickness:	50 and 100 μ m standard (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:	110 - 250 V, 50/60 Hz
Dimensions:	480 x 690 x 410 mm (W x H x D)
Weight:	approx. 40 kg
Item no.:	SD104013



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" display
- integrated 10" touch LCD monitor
- 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:	2 x (130 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:	UV LED 385 nm
Layer thickness:	50 and 100 μ m standard (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:	110 - 250 V, 50/60 Hz
Dimensions:	480 x 690 x 410 mm (W x H x D)
Weight:	approx. 42 kg
Item no.:	SD104014





The light curing unit

The light curing process inside the 3D printer ensures that resins polymerise with geometric stability. After printing, the object is released from the construction platform and briefly cleaned in SHERAultra-p. Afterwards it is necessary that the object is re-exposed in the light curing unit for final curing.

At the same time the re-exposure process has the purpose of stability for the printed object. As we attach particular importance to quality, we tested different light-curing units, the wave range for actual values and kept an eye on the heat generation. The SHERAflash-light plus, which works with nitrogen as an inert gas, is a truly reliable product.

Please note! The use of the SHERAflash-light plus is mandatory for curing of the SHERAprint-ortho plus / UV in order to fulfill the requirements of a medical device.

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 à 100 W
Nominal voltage:	100, 117, 230 volt 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





SHERAprint materials

All SHERAprint resins are high-quality light-curing resins, specifically tailored for 3D printing with SHERAprint. For each material, specific print parameters have been configured in the software – for 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. SHERAprint resins as class I medical devices are available for 3D printing of temporary crowns and bridges, surgical guides or impression.

The model material (SHERAprint-model in three versions) and the material for printing cast designs (SHERAprint-cast) round off the wide range of high-quality light polymerisates. Further products are SHERAprint-gingiva mask for the production of fitting gingival masks and the medical device SHERAprint-bracket key for transfer keys in orthodontic technique.



SHERAprint-ortho plus / UV

Light-curing 3D printing resin

CE 0123

- for the production of bite splints and retainers as part of orthodontic treatments as well as surgical guides
- clear resin with maximum wear comfort
- very easy to polish and grind
- repairable with conventional resins
- biocompatible
- available in 1000 g bottles

Technical data	SHERAprint-ortho plus	SHERAprint-ortho plus UV
Viscosity at 23°C:	0.62 Pa s	0.62 Pa s
Bending strength:	79 MPa	79 MPa
Bending e -module:	1,900 - 2,100 MPa	1,900 - 2,100 MPa
Shore hardness D:	74 - 83	74 - 83
Colour:	clear	clear
Item no:	SD400045	SD400345
Wave length:	for 3D printing on the basis of 405 nm (SHERAeco-print)	for 3D printing on the basis of 385 nm (SHERAprint)



SHERAprint-bracket key

Light-curing 3D printing resin



- for the production of transfer keys in orthodontic treatment
- clear resin with increased elasticity
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 23°C:	1.1 – 1.6 Pa s
Elongation limit:	12 – 18 %
Shore hardness D:	80 - 90
Colour:	clear
Item no.:	SD400130



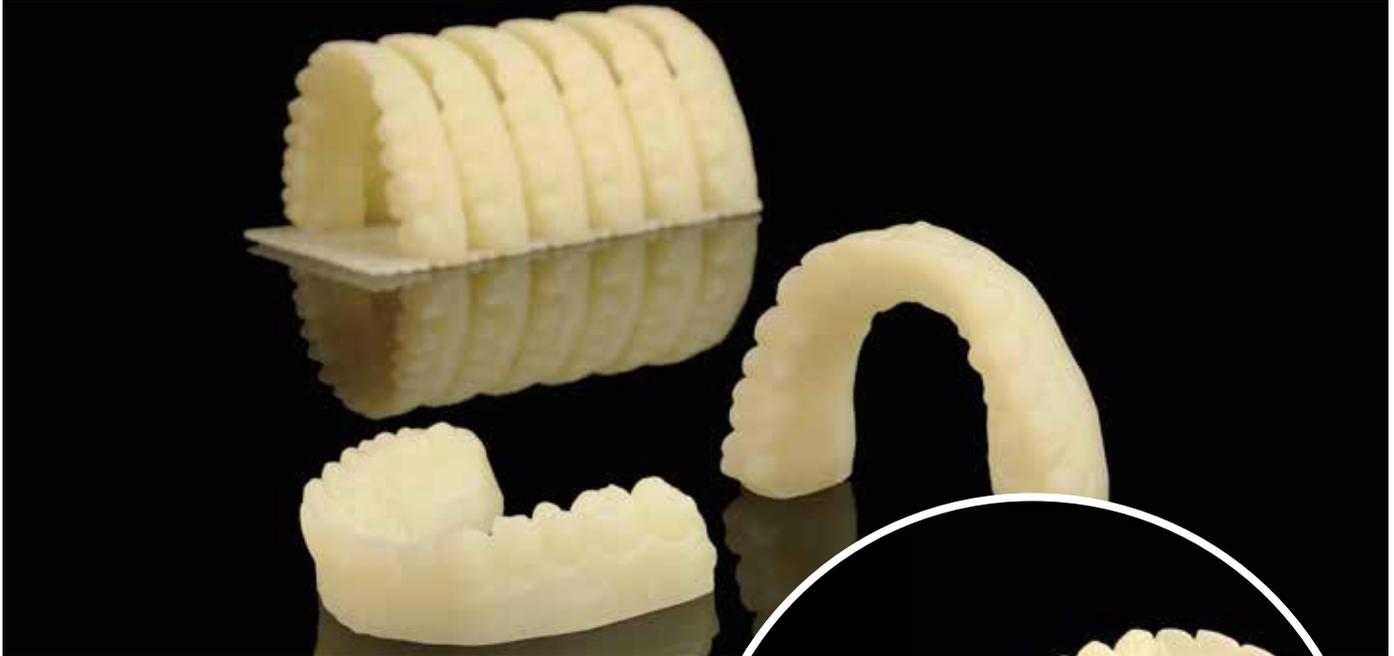
SHERAprint-model

Light-curing 3D printing resin

- for the production of all kinds of models
- high precision
- surface highly suited to scanning
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 23°C:	0.7 - 1.2 Pa s
Bending strength:	≥ 40 MPa
Bending e -modul:	≥ 1,000 MPa
Shore hardness D:	80 - 90
Colour:	amber
Item no.:	SD400060



SHERAprint-model fast

Light-curing 3D printing resin

- for the production of orthodontic models
- permits an even faster print
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 23°C:	1.0 - 1.5 Pa s
Bending strength:	≥ 40 MPa
Bending e -modul:	≥ 1,000 MPa
Shore hardness D:	80 - 90
Colour:	orange
Item no.:	SD400071



SHERAprint-model plus / UV

Light-curing 3D printing resin

- for the production of high precision master models
- for aesthetically appealing works
- colours can be combined among each other
- very good readable
- scanable 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-gingiva mask

Light-curing 3D printing resin

- for the production of gingival masks
- for aesthetically appealing works
- offers process reliability for an optimal control
- slightly transparent
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 20°C:	1.0 - 2.0 Pa s
Yield strength:	15 - 25 %
Colour:	pink
Item no.:	SD400100



Print materials



SHERAprint-cast

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 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 23°C:	1.1 - 1.4 Pa s
Shore hardness D:	80 - 90
Colour:	red
Item no.:	SD400090

Product video



SHERAprint-sg

Light-curing 3D printing resin

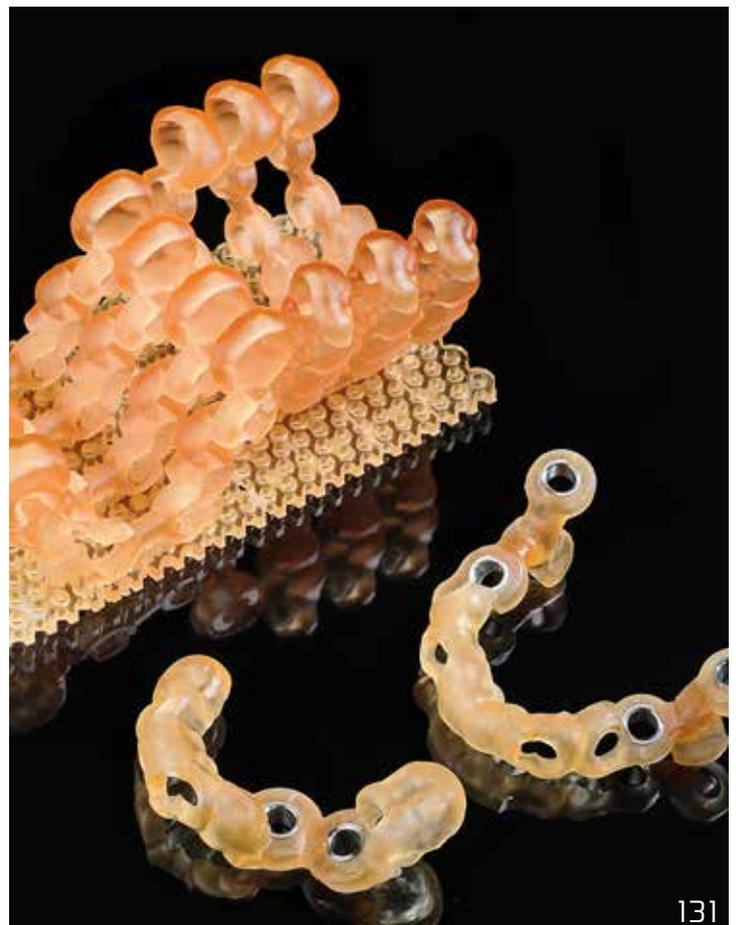


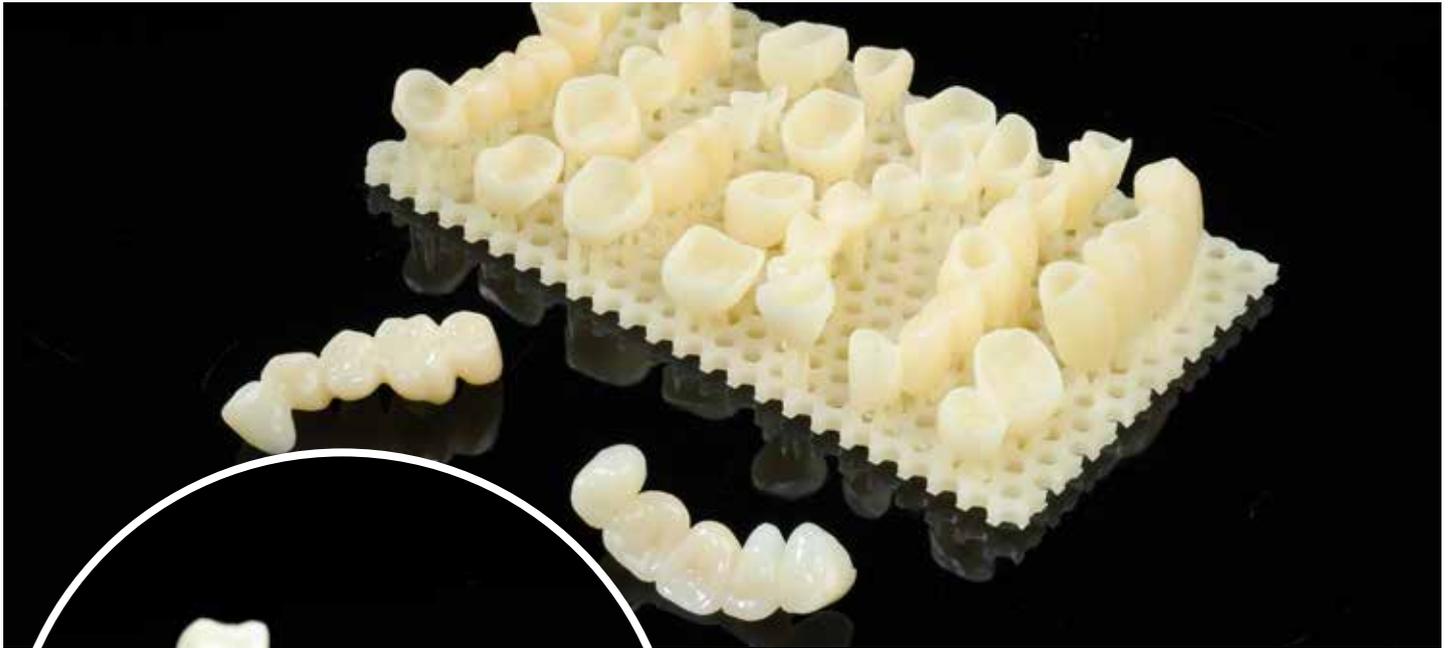
- for the production of customised surgical guides with high precision
- sterilisable in autoclave
- biocompatible
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles



Technical data

Viscosity at 23°C:	1.1 - 1.6 Pa s
Bending strength:	≥ 80 MPa
Bending e -modul:	≥ 2,000 MPa
Shore hardness D:	80 - 90
Sterilisation at 134°C:	max. 5 min
Colour:	transparent orange
Item no.:	SD400030





SHERAprint-cb

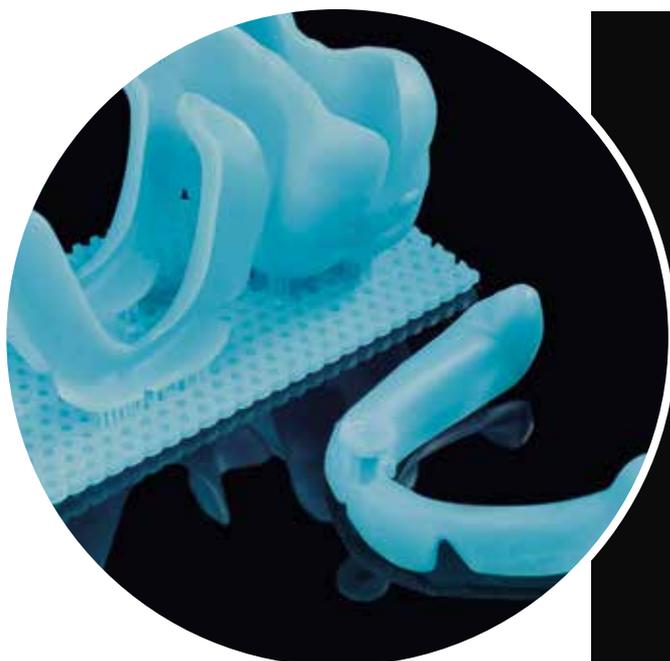
Light-curing 3D printing resin



- for the production of temporary crowns and bridges
- ideal for quick temporary restoration
- very easy to polish and grind
- biocompatible
- customisable with tooth-coloured resins or composites
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 23°C:	0.9 - 1.4 Pa s
Bending strength:	≥ 85 MPa
Bending e -modul:	≥ 2,100 MPa
Absorption of water:	< 30 µg/mm ²
Water solubility:	< 5 µg/mm ²
Shore hardness D:	80 - 90
Colour:	A3.5
Item no.:	SD400011



SHERAprint-tray

Light-curing 3D printing resin



- for the production of customised impression trays
- can be used for all types of trays in combination with various impression materials
- biocompatible
- for 3D printing on the basis of 385 nm (SHERAprint) and 405 nm (SHERAeco-print)
- available in 1000 g bottles

Technical data

Viscosity at 23°C:	0.9 - 1.4 Pa s
Bending strength:	≥ 80 MPa
Bending e -modul:	≥ 2,000 MPa
Shore hardness D:	80 - 90
Colour:	petrol
Item no.:	SD400020

Accessories

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

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



SHERA**ba**th

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

SHERA**ba**th

Material bath for SHERAprint 20
- item no. SD109812



Lid for material bath

for SHERAprint 30/40
- item no. SD109823



Lid for material bath

for SHERAprint 20
- item no. SD109822



SHERAultra-p

Ultrasonic cleaner for 3D-printed resin parts

- for effective cleaning of 3D-printed parts
- removes residual material from cured objects
- available in 1000 g bottles
- item no: SD401000



SHERAclear-p

Special cleaner for SHERAprint material baths

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



Milling

139

Milling
machines

147

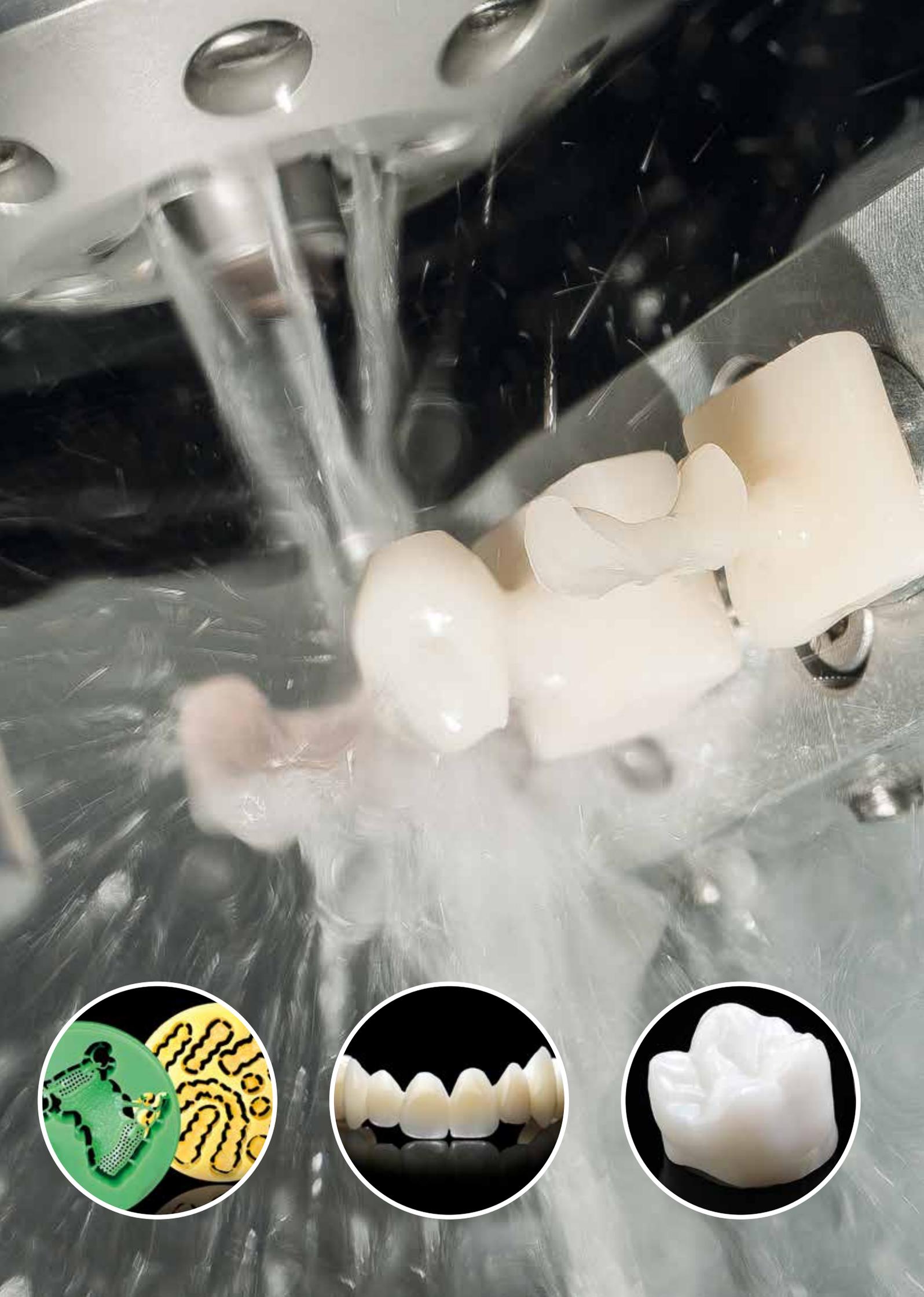
Milling
discs

153

SHERAtools

156

Accessories





Milling machines

We provide high performance alternatives for different requirements and priorities to our milling machines. Optimised CAM software is included in all SHERAmill milling machines. The calculation of the milling strategy depends on various factors such as the type of material, type of work or desired quality. Feed and rotational speed range of the spindle are especially synchronised which leads to better quality. Simultaneously, the milling tool is protected and the working time is reduced.





SHERAmill dry

Milling machine

- for materials like acrylics, acetal techno-polymer (POM), wax, zirconia, composites, non-precious alloys (except titanium), model stone
- 5-axis dry processing
- automatic tool changer with 16 slots
- compressed air (6 bar)
- highest accuracy thanks to precision ball screw spindle
- optimised CAM software
- inner casing in one pour for stability and less vibrations
- data in open STL format
- simple and intuitive to operate
- comprehensive tool and material library
- dimensions: approx. 450 x 630 x 530 mm (W x H x D)
- weight approx. 91 kg
- item no.: SD100102





SHERAmill wet

Wet milling machine

- elaboration of a multiplicity of block materials like for example nano-composite, glass ceramic, non-precious metals, etc.
- 4-axis wet-machining
- automatic tool changer with 8 slots
- simultaneously working axes
- optimised CAM software
- high performance and highly precise spindle, constructed for long-term loading
- rotation axis area of 200°
- compact construction
- inner casing in one pour for stability and less vibrations
- data in open STL format
- simple and intuitive to operate
- completely integrated liquid cooling system
- comprehensive tool and material library
- dimensions: 360 x 471 x 451 mm (W x H x D)
- weight: approx. 50 kg
- item no.: SD100002



Technical data in comparison

Materials

Machining process

Tool holder

Disc geometry

Disc change

Repeat accuracy

Compressed air

Rotation axes

Axis measurement

Spindle

Housing

Dimensions (W x H x D)

Weight

Suction device

Accessories



SHERA mill dry

acrylics, wax, zirconia, composites,
non-precious alloys (except titanium),
model stone

dry

automatic for 16 tools
(pneumatic)

∅ 98.5 mm,
heights of 10 - 40 mm

manual

±0.003 mm

6 - 8 bar, 50 l / min

A axis: 360°
B axis: ± 35°

measurement with calibration specimen
and automatic axis compensation

synchronous spindle with 4-way hybrid
ball bearing and precision shaft, as well as
integrated taper cleaning,
max. output power 500 W,
max. speed of 60,000 rpm

complete housing of the work room with
closable front flap - automatic safety
interlock of the front flap

approx. 450 x 630 x 530 mm

approx. 91 kg

connectors for external suction device

switching unit for automatic operating
of the suction device



SHERA mill wet

glass ceramic, composites, titanium

wet

automatic for 8 tools
(pneumatic)

for 3 blocks with round shanks (positioning
range for workpieces 60 x 40 x 20 mm)

manual

±0.003 mm

4 bar, 50 l / min

A axis: 190° bis -10°

measurement with calibration specimen
and automatic axis compensation

synchronous spindle with 4-way hybrid
ball bearing and precision shaft, as well as
integrated taper cleaning,
max. output power 600 W,
max. speed of 60,000 rpm

complete housing of the work room with
closable front flap - automatic safety
interlock of the front flap

approx. 360 x 471 x 451 mm

approx. 50 kg

liquid cooling system integrated

Tec Liquid (coling lubricant)







Milling discs

High-quality milling discs made of different materials such as zirconia, PMMA, wax or non-precious alloy are part of the SHERAdigital range. Materials, which you have been searching for in vain by other providers, are part of it: for example TSM Acetal Dental® for allergy patients or SMILE-CAM, a PMMA acrylic disc reproducing the natural colour gradient of the teeth in a single step.



Milling discs



SHERAdisc PM

Disc made of pure polymethyl methacrylate (PMMA)

CE 0123

- for temporary crowns and bridges
- very easy to process
- ø 98.5 mm, with step

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



SMILE-CAM

Disc made of pure polymethyl methacrylate in 5-colour shades (PMMA)

CE 0546

- for temporary crowns and bridges
- pleasing aesthetics and natural colour gradient thanks to 5-colour shades
- intraoral duration up to 5 years
- ø 98.5 mm

Technical data

Bending strength [MPa]:	92				
Vickers hardness [HV 10]:	21				
E-module [MPa]:	2,550				
Residual monomer [%]:	< 1				
Thickness:	20 mm				
Colour:	A1	A2	A3	B3	C2
Item no.:	SD202121	SD202122	SD202123	SD202125	SD202128



Milling discs



Pressing TSM Acetal Dental®

CE 0546

Disc made of acetal techno-polymer (POM)

- for temporary crowns and bridge frameworks
- ideal for allergy patients
- outstanding biocompatibility
- intraoral duration up to 4 years
- high abrasive and impact resistance
- optimal tensile resistance
- enhances elastic memory
- low thermal conductivity
- ø 98.5 mm

Technical data

Bending strength [MPa]:	89		
E-module [MPa]:	3,536		
0.2-yield strength [MPa]:	40		
Breaking strain [A5 %]:	5.2		
Colour:	A1	A3	B2
Item no. / thickness 20 mm:	SD202201	SD202203	SD202206
Item no. / thickness 25 mm:	-	SD202213	-



SHERAcad-wax

Disc made of wax

- hard, can be machined well
- burns free of residue
- emerald green: optimised elasticity for e.g. 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

CE 0123

- for crowns and bridges
- yttrium-stabilized, pre-sintered
- very good biocompatibility
- high strength and edge stability
- very good to process
- constant firing shrinkage
- \varnothing 98.5 mm

Technical data

Density [g/cm ³]:	> 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)



SHERAaleos-disc

Disc made of high-quality cobalt-chrome alloy

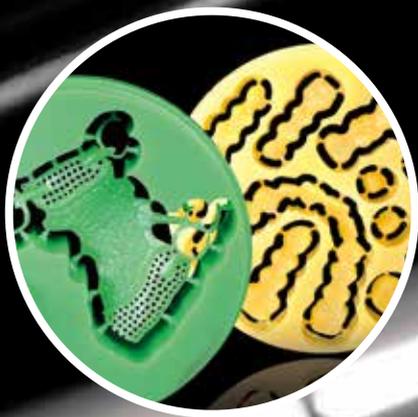
- bonding alloy
- suitable for laser welding
- with step, \varnothing 98.3 mm

CE 0123

Technical data

Vickers hardness [HV 10]:	285			
Density [g/cm ³]:	8.5			
Tensile strength [N/mm ²]:	525			
0.2-yield strength [N/mm ²]:	375			
Breaking strain [A5 %]:	14.7			
E-module [N/mm ²]:	240,000			
Coefficient of expansion [25 - 500°C]:	14.5 x 10 ⁻⁶ K ⁻¹			
Thickness:	10 mm	12 mm	13.5 mm	15 mm
Item no.:	SD204000	SD204002	SD204003	SD204005

[Other disc thicknesses on request.](#)





SHERAtools

Optimised tools concerning handling, precision, lifetime and cost-efficiency: these are the dental milling tools and grinding point of SHERAtool. A special reliable grinding geometry and a perfect cutting characterize them. During the selection, we focussed on excellent lifetimes of long-lasting tools. The SHERAtools are designed for the work with zirconia, composites, wax, acrylic, non-precious alloys as well as glass ceramic.



Radius milling tools

- for the best results from roughing, sizing to fine-tuning
- semi-circular rounded tool tip with a large neck
- 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 plastics

- diameter of 2.5 to 1.0 mm
- flawless chip removal for lubricating work tool is ensured thanks to the large flute
- very smooth surface at high feed rates thanks to their extremely sharp edge



Flat milling tools / torus milling tools

- for drillings 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 points with diamond coating for glass ceramics in different variations
- torus abrasive point with coarser graining for roughing
- torus abrasive point with finer graining for the preparation of abutment geometries
- fine-grained radius grinder for finishing
- to avoid microcracks, 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

cobalt-based alloy



red

glass ceramic



black

universal



black



SHERA mill

Index of milling tools

	Ø	length	5x/5x-change	dry	wet	50/40	Item no.
● 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 WP1-40, radius milling tool	1.0	40	x	x			SD800054
SHERAtool WP2-40, radius milling tool	2.0	40	x	x			SD800055
SHERAtool WP1-35, 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 F-EMF12-35, torus cutter	1.2	35	x	x			SD800077
SHERAtool EMF06-32, radius milling tool	0.6	32			x	x	SD800062
SHERAtool EMF1-32, radius milling tool	1.0	32			x	x	SD800064
SHERAtool EMF2-32, radius milling tool	2.0	32			x	x	SD800065
SHERAtool F-EMF12-32, torus cutter	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
SHERAtool F-GK26-35, torus grinding point	2.6	35	x		x		SD800319
● universal				x			
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		SD800107



Accessories



Nabertherm HTCT 01/16

Sintering furnace for zirconium

- up to 1,550°C
- high-quality Nabertherm standards
- up to 45 units per sintering process
- simple operation
- double-walled stainless steel housing for low external temperatures and high stability
- 9 programmable memories with 20 ramps and 20 holding stages
- dimensions:
340 x 460 x 300 mm (W x H x D) closed
340 x 660 x 300 mm (W x H x D) open
- weight: approx. 20 kg
- item no. SD102000



SILENT compactCAM

Extraction

- space saving
- 2 suction levels
- bidirectional communication with the CAM unit through interface cable
- bagless micro filter technology incl. mechanical filter cleaning
- low-noise emission thanks to a fully sealed turbine
- dimensions (W x H x D): 245 x 440 x 500 mm
- weight: approx. 13.2 kg
- included in delivery:
interface cable type A (5 m), suction hose (2 m)
- item no.: SD103001



Zubler V6000

Extraction

- especially for zirconium dust
- quiet and space-saving
- dimensions:
200 x 650 x 600 mm (W x H x D)
- weight: approx. 30 kg
- item no.: SD103000



SHERAdialux

Diamond polishing paste

- for zirconia and ceramic
- for non-precious alloys, especially for telescopic inner surfaces
- polishes from coarse to fine in one single step
- does hardly erode
- available: 20 g container
- item no.: 954230



SHERAscanspray

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

Product index

3

3D print accessories	134 - 135
3D print materials	124 - 133
3D printers	112 - 119

A

Abrasives	68 - 69
Acrylic dentures	82 - 84
Acrylic for denture repairs	82 - 83
Acrylic milling discs	148 - 149
Acrylics	25, 38, 82 - 84,
Adhesives	30
Agar-Agar, duplicating gels	56 - 57
Alginate solvent	88
Alloys	59 - 65
Aluminium oxide	68
Articulating plasters	23 - 24

B

Bio casting ring liner	52
Bi-Pin	31
Bonding alloy	60 - 61
Brushes	77 - 79, 91
Buffer	79

C

Casting ring liner	52
Chrome investments	50
Cleaning agent for acrylic denture	88
Cleaning agent for impression tray	88
Cleaning agents	88 - 89, 135
Cleaning fluid for tray materials	85
Cold cure acrylics	82, 84
Concentrate for boiling out wax	88
Contactspray	69
Cream hand wash	90
Crown and bridge alloys	60 - 61
Crown and bridge investments	46 - 47
Cutting discs	70 - 71
Cyanoacrylate adhesive	30

D

Deep drawing foils	38
Denture cleaner	83, 88
Diamond polishing paste	75, 157
Die spacer	38
Dipping hardener	53
Disc made of cobalt-chrome alloy	151
Disc made of zirconia	150
Disinfectant	28
Dowel pins	31
Drill	31
Duplicating flask	55
Duplicating gels	56 - 57
Duplicating materials	54 - 57
Duplicating silicones	54 - 55

E

Electrolyte	65
Expansion liquid	51
Extraction	156 - 157

F

Flux	65
Frame cleaner	65
Fuel paste	65

G

Gingival masks	35
Gloss finish	83
Graduated pin	31
Grinding discs	70

H

Hand piece brushes	79
Hand protection cream	91
Hard plasters	21 - 22
Heat cure acrylic	83
Heat shielding and isolating paste	65

I

Impression disinfectant	28
Impression spray	28
Injection wax	40
Instant adhesive	30
Intra oral tips	35
Investment for press ceramic	45
Investment for rapid prototyping	49
Investment for telescopic crown technique	48
Investment for titanium casting	49
Investments	43 - 50
Isolating agents	29, 84

L

Laser welding wires	65
Light cure tray material	85
Light curing unit	121
Liquid for investments	51

Product index

M

Maintenance spray	30
Material bath	134
Measuring cylinder	51
Milling accessories	134
Milling bur for gingival mask	35
Milling discs	148 - 151
Milling machines	140 - 145
Milling tools	154 - 155
Mixing gun	35
Mixing liquid for investments	51
Mixing liquid for pumice powder	76
Mixing nozzles	35
Model adhesive	53
Model casting alloys	62 - 64
Model gloss agent	25
Model hardener	25
Model resin	25
Modelling resin	38
Modelling stones / plasters	21
Modelling wax	39 - 40
Mould former	52

K

Non-precious alloys	60 - 61
---------------------	---------

O

Occlusion spray	69
Opaker brush	91
Orthodontic cold cure acrylic	84
Orthodontic plasters	22

P

Paste for pre-polishing acrylics	76
Paste hardener	34
Pin bur	31
Pins	31
Plasters	21 - 22

P

Polishers	72 - 73
Polishing agents	74 - 76
Polishing beads	69
Polishing brushes	77 - 79
Polishing electrolyte	65
Polyurethane	25
Pumice powder	76

R

Red sable brushes	91
Refractory die material	44

S

Scanners	97 - 105
Scanning software	106 - 107
Scanspray	157
Separating agents	29 - 30, 84
Silicone	32 - 35, 54 - 55
Silicone duplication materials	54 - 55
Silicone putties	32 - 34
Silicone spray	30
Sintering furnace	156
Soap	90
Software	106 - 107
Solder	65
Soldering agents	65
Speed stone	19, 21
Spray for finishing dentures	83
Stone / Plaster hardener	25
Stone / Plaster separating agents	30
Stone / Plaster solvent	25
Stone gloss agent	25
Stone precipitating agent	25
Stones / Plasters	13 - 24
Stones / Plasters for basing arches	20
Super hard stones	14 - 19
Surface tension release agent	28

T

Tapered pin	31
Thinner	38, 53
Tray material	85

U

Ultrasonic cleaner	89, 135
Underlay foils	38
Universal cleaner	89
Universal separating agents	29

W

Waxes	39 - 41
Welding wires	65

SHERA-Index

A

SHERAADHESO	24
...ALABASTER	22
...ALEOS	61
...aleos-disc	151
...ALLOY-NP	61
...ALLOY-NI	61
...ALPIN	21
...ALUMINIUMOXID	68
...AQUA	17
...ARTI	23
...ARTI-QUICK	23

B

SHERAbath	134
...BIANCO	22
...BIMFLUID AB	76
...BIMSPASTE	76
...BIMSSTEINPULVER	76
...BIO-MUFFELVLIES	52
...BRILLIANT	25

C

SHERAcad-wax	149
...CARE	91
...CAST	50
...CAST 2000	50
...CASTINGSTICKS	40
...CLEAN 50	90
...CLEAN 100	90
...CLEAN 150	90
...clear-p	135
...CRYSTAL	35
...COAT	83

D

SHERADAN	65
...DENT	60
...DIALUX	75, 157
...disc PM	148
...disc ZR	150
...DON	83
...DOUBLE	57
...DUETT	33
...DUETT-SOFT	32
...DUPLICA	34
...DUPLICA-HARD	34
...DYNAMIC	21

E

SHERAEXACT 65	34
...EXACT 85	34
...EXPAND	20

F

SHERAFAVORIT	18
...FINA® 2000	46
...FINA®-RAPID	47
...FINISH	83
...flash-light plus	121
...FLOC	25
...FLUX NE	65
...FORM	57
...FRIXION	48

G

SHERAGEL	56
...GINGIVAL	35
...GLANZSTRAHLPERLEN	69

H

SHERAHARD-ROCK	14
...HEAVY-METAL	62
...HYDROKOL	56

I

SHERAISOLEX	29
-------------	----

J

SHERAJIVE	19
-----------	----

K

SHERAKFO-GIPS	22
...KOMBI	68

L

SHERALIQUID	51
...LIQUID EXTRA	51
...LIT-CYLINDRA	64
...LIT-ELASTIC	63
...LIT-IMPERIAL	63
...LÖFFEL-FLUID	85
...LOT-N	65
...LUX 711	76
...LUX 715	76

M

SHERAMAGIC-GREEN	47
...MASTER	28
...MAXIMUM	15
...MAXIMUM 2000	15
...MEGA 2000	30
...mill dry	141
...mill wet	143
...MODELLHAFTGRUND	53
...MOUNT	24
...MUFFELFORMER K&B	52
...MUFFELFORMER MG	52

N

SHERANAXOS	64
------------	----

O

SHERAONFIRE	65
...ORTHOMER	84

P

SHERAPASTENHÄRTER	34
...PLAST	38
...PLASTER	21
...POL 701	74
...POL 704	74
...POL 705	74
...POLAN 2 : 1	25
...POL-RESIN	74
...PORAL	53
...POR-L	53
...PREMIUM	17
...PRESS	82
...PRESS-FLEX	82
...PRIMA	18
...print 20	115
...print 30	117
...print 40	119
...print-bracket key	125
...print-cast	130
...print-cb	132
...print-gingiva mask	129
...print-model	126
...print-model fast	127
...print-model plus / UV	128
...print-ortho plus / UV	124
...print-sg	131
...print-tray	133
...PURE	16

R

SHERARELAXA	28
...REFRACT	44
...REPRO-WAX	40

S

SHERAscan 3	103
...scan 7	101
...scan io	99
...scanspray	157
...SEPAL-U	29
...SEPARAT	29
...SEP-G	30
...SOCKEL-FLÜSSIG	20
...SON 925	89
...SON 927	88
...SON 928	25
...SON 929	88
...SONIC	89
...STRAHLKORUND	68
...STUMPFLACK	38

T

SHERATANDEM 60	32
...TANDEM 85	32
...TANDEM 90	33
...TANDEM 95	33
...TEC	30, 84
...TITAN-EASY	49
...tools	153 - 155
...TRAY	85

U

SHERAultra-p	135
...UNDER PRESSURE	45

V

SHERAVEST RP	49
--------------	----

W

SHERAWAX-EX	88
-------------	----

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