



# TIMES CHANGE, AND WE CHANGE WITH THEM

TEMPORA MUTANTUR, ET NOS MUTAMUR IN ILLIS

Dear customers,

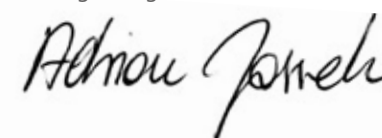
Since more than 30 years, our most important corporate objective is to support you in many areas of your action. To meet this demand, we offer you a wide range of reliable materials and innovative products. So we adapt to constantly changing conditions, new challenges and current trends. This leads us to specialize in metallic materials for the processing with digital technologies. Meanwhile, the company has a range of specially developed high-end products from non-precious metal, ranging from dental alloys for the classic casting to blanks for milling and powder for 3D printing. Of course also selected classical products for laboratory and clinical materials are part of our product portfolio.

In the anniversary year we present our new appearance. In addition to the newly designed catalogue, there is also the possibility to find out more about our products on our new customer-friendly website [www.scheftner.dental](http://www.scheftner.dental). On our homepage you will find your direct contact, which supports you professionally and individually within the product selection.

It is very important to us, you as a customer, to be completely satisfied.

Hereby we give you this catalogue and thank you for this long and successful cooperation.

Best greetings from Mainz,



Adrian Jossek  
General Manager

and the entire S&S Scheftner Team



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# 01

## NON-PRECIOUS METAL ALLOYS (NPM)

Our non-precious metal alloys are characterized by excellent oral resistance and outstanding mechanical properties. Different compositions guarantee all restoration indications. Whether veneering with ceramic and acrylics, model casting and superstructures, our alloys produce highly aesthetic and natural results in excellent quality.

- |                 |               |
|-----------------|---------------|
| ✦ STARBOND COS  | ✦ STARSOLDER  |
| ✦ STARBOND EASY | ✦ STARWIRE    |
| ✦ MOGUCERA C    | ✦ DIASTAR     |
| ✦ STARBOND LFC  | ✦ PASTA FLUX  |
| ✦ MOGUCERA N    | ✦ MODELSTAR S |
| ✦ STARBOND NI   | ✦ STARBOND CO |
| ✦ STARBOND LOT  | ✦ MOGUCAST EH |



Starbond CoS





TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	650MPa
Ultimate tensile strength	910MPa
Elongation	8%
Elastic modulus	200GPa
Vickers hardness	280 HV 10
Density	8,8 g/cm <sup>3</sup>
Melting range	1305 - 1400°C
Preheating temperature	850 - 950°C
Casting temperature	1500 - 1550°C
CTE (20-600°C)	14,0 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

STARBOND COS

- CoCrWMo bonding alloy for conventional, high-fusing (low expansion) ceramics.
- Free of nickel, lead, beryllium and cadmium
  - Type 5 pursuant to DIN EN ISO 22674
  - High degree of purity
  - Biocompatible and extremely corrosion resistant
  - Composition:  
Co: 59% Cr: 25% W: 9,5% Mo: 3,5% Si: 1% C,Fe,Mn,N: <1%

- ADVANTAGES FOR DENTAL TECHNICIANS:
- Wide range of indications
  - System-free working due to very good alloy properties
  - Pleasant polishing properties and easy finishing due to low hardness of 280 HV10
  - A CTE of 14.0 enables flexibility in ceramic selection and safe veneering
  - No cooling phase required, depending on the ceramics
  - Excellent metal-ceramic bonding, even without bonder
  - An oxidation firing can be omitted
  - Optimal conditions for laser welding
  - Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	133000
250g	133250



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	610MPa
Ultimate tensile strength	830MPa
Elongation	10%
Elastic modulus	190GPa
Vickers hardness	285 HV 10
Density	8,7 g/cm <sup>3</sup>
Melting range	1310 - 1410°C
Preheating temperature	850 - 950°C
Casting temperature	1480 - 1530°C
CTE (20-600°C)	14,4 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	4

STARBOND EASY

- CoCrW bonding alloy for conventional, high-fusing (low expansion) ceramics.
- Free of nickel, lead, beryllium and cadmium
  - Type 4 pursuant to DIN EN ISO 22674
  - High degree of purity
  - Biocompatible and extremely corrosion resistant
  - Composition:  
Co: 61% Cr: 27,5% W: 8,5% Si: 1,6% C,Mn,Fe: <1%

- ADVANTAGES FOR DENTAL TECHNICIANS:
- System-free working due to very good alloy properties
  - Pleasant polishing properties and easy finishing due to low hardness of 285 HV10
  - A CTE of 14.4 enables flexibility in ceramic selection and safe veneering
  - No cooling phase required, depending on the ceramics
  - Excellent metal-ceramic bonding, even without bonder
  - An oxidation firing can be omitted
  - Optimal conditions for laser welding
  - Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	140000
250g	140250

MOGUCERA C

- CoCrMo bonding alloy for conventional, high-fusing (low expansion) ceramics.
- Free of nickel, lead, beryllium and cadmium
  - Type 5 pursuant to DIN EN ISO 22674
  - High degree of purity
  - Biocompatible and extremely corrosion resistant
  - Composition:  
Co: 65% Cr: 28% Mo: 5% Mn: 1% C,Si: <1%

- ADVANTAGES FOR DENTAL TECHNICIANS:
- Very good alloy properties enable system-free operation
  - Very easy to polish and easy working characteristics due to a low hardness of 300 HV10
  - A CTE of 14.1 ensures flexibility in ceramic selection and safe veneering
  - No cooling phase required, depending on the ceramics
  - Excellent metal-ceramic bonding, even without bonder
  - An oxidation firing can be omitted
  - Optimal conditions for laser welding
  - Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	138000



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	508MPa
Ultimate tensile strength	795MPa
Elongation	9%
Elastic modulus	209GPa
Vickers hardness	300 HV 10
Density	8,3g/cm <sup>3</sup>
Melting range	1370 - 1435°C
Preheating temperature	850 - 950°C
Casting temperature	1535 - 1590°C
CTE (20-600°C)	14,1 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

STARBOND LFC

- CoCrFe bonding alloy for low fusion ceramics.
- Free of nickel, beryllium, cadmium and lead
  - Type 4 pursuant to DIN EN ISO 22674
  - High degree of purity
  - Biocompatible and extremely corrosion resistant
  - Composition:  
Co: 34% Cr: 28,5% Fe: 30% Mo: 5% Si: 1% Mn: 1% N,C: <1%

- ADVANTAGES FOR DENTAL TECHNICIANS:
- System-free working due to very good alloy properties
  - Pleasant polishing properties and easy finishing due to low hardness of 315 HV10
  - Flexibility in ceramic selection and safe veneering
  - No cooling phase required, depending on the ceramics
  - Excellent metal-ceramic bonding, even without bonder
  - An oxidation firing can be omitted
  - Optimal conditions for laser welding
  - Application flexibility and easy melting, no sparking
  - Wide spectrum of indications including long span bridges

QUANTITY	REF
1000g	134000
250g	134250



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	580MPa
Ultimate tensile strength	860MPa
Elongation	11%
Elastic modulus	195-205GPa
Vickers hardness	315 HV 10
Density	8,1g/cm <sup>3</sup>
Melting range	1300 - 1370°C
Preheating temperature	850 - 950°C
Casting temperature	1470 - 1520°C
CTE (20-600°C)	15,9 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	4



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	379MPa
Ultimate tensile strength	664MPa
Elongation	8%
Elastic modulus	200GPa
Vickers hardness	245 HV 10
Density	8,3 g/cm <sup>3</sup>
Melting range	1290 - 1350°C
Preheating temperature	850 - 950°C
Casting temperature	1450 - 1500°C
CTE (20-600°C)	14,4 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	4

MOGUCERA N

NiCr bonding alloy for conventional, high-fusing (low expansion) ceramics.

- Free of beryllium, cadmium and lead
- Type 4 pursuant to DIN EN ISO 22674
- High degree of purity
- Biocompatible and extremely corrosion resistant
- Composition:  
Ni: 62% Cr: 24% Mo: 11% Si: 1,6% Mn: <1%

- ADVANTAGES FOR DENTAL TECHNICIANS:
- Wide range of indications
  - Best melting and casting properties
  - System-free working due to very good alloy properties
  - Pleasant polishing properties and easy finishing due to low hardness of 245 HV10
  - Flexibility in ceramic selection and safe veneering
  - No cooling phase required, depending on the ceramics
  - Excellent metal-ceramic bonding, even without bonder
  - An oxidation firing can be omitted
  - Optimal conditions for laser welding
  - Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	139000



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	340 - 355MPa
Ultimate tensile strength	490 - 510MPa
Elongation	5%
Elastic modulus	200GPa
Vickers hardness	200 HV 10
Density	8,2 - 8,3g/cm <sup>3</sup>
Melting range	1310 - 1410°C
Preheating temperature	850 - 950°C
Casting temperature	1510 - 1560°C
CTE (20-600°C)	14,0 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	3

STARBOND NI

NiCr bonding alloy for conventional, high-fusing (low expansion) ceramics.

- Free of beryllium, cadmium and lead
- Type 3 pursuant to DIN EN ISO 22674
- High degree of purity
- Biocompatible and extremely corrosion resistant
- Composition:  
Ni: 60,7% Cr: 24% Mo: 11% Fe: 1,5% Si: 1,8% C: <1%

- ADVANTAGES FOR DENTAL TECHNICIANS:
- System-free working due to very good alloy properties
  - Pleasant polishing properties and easy finishing due to low hardness of 200 HV10
  - Flexibilität bei der Keramikauswahl und sicheres Verblenden
  - No cooling phase required, depending on the ceramics
  - Excellent metal-ceramic bonding, even without bonder
  - Optimal conditions for laser welding
  - Application flexibility and easy melting, no sparking
  - An oxidation firing can be omitted

QUANTITY	REF
1000g	131000

STARBOND LOT

Soldering rods for all Starbond alloys.

- Free of nickel, beryllium and cadmium
- Ensures tension free connections
- Suitable for ceramic veneering
- Working temperature: 1200-1240°C
- Composition:  
Co: 61,5% Cr: 30% Mo: 4% Si: 3,5%  
B,C,Mn,Fe: <1%

QUANTITY	REF
25g	121525
5g	121526



STARWIRE

CoCr laser welding wire.

- Free of beryllium and cadmium
- Length 4.3m (XXL-Pack)
- Suitable for ceramic veneering
- Composition:  
Co: 65% Cr: 28% Mo: 5,5% C,Si,Fe,Mn,Ni: <1%

QUANTITY	REF
4,3m x Ø0,5mm	121500
4,3m x Ø0,35mm	121600

PASTA FLUX

Special soldering paste for NPM-alloys and precious metal alloys.

- This soldering paste can be used also after firing of bonding alloys, no ceramic discolouring.
- Good flow properties
- Universally applicable

QUANTITY	REF
30g	220210

STARSOLDER

Ready-to-use universal soldering rods for all non-precious alloys.

- Free of beryllium and cadmium
- Ensures tension free connection
- Suitable for ceramic veneering
- Working temperature: 1100-1150°C
- Composition:  
Co: 50% Cr: 18% Ni: 17% Si: 8% W: 4,5%  
B,C,Fe: <1%

QUANTITY	REF
25g	121515
5g	121516



DIASTAR

All-in-One diamonded polishing paste for metals, ceramics, zirconia, composites, plastics and acrylics.

- Very high diamond content
- Hard paste consistency, thereby more efficient dosing
- No splashing or smearing - clean and economical
- Not suitable for intraoral use!

QUANTITY	REF
1 Can 30g	271069







TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	510 - 600MPa
Ultimate tensile strength	770 - 780MPa
Elongation	>3%
Elastic modulus	200 - 230GPa
Vickers hardness	355 HV 10
Density	8,4 g/cm <sup>3</sup>
Melting range	1170 - 1390°C
Preheating temperature	850 - 950°C
Casting temperature	1490 - 1540°C
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

❖ MODELSTAR S

CoCr partial denture alloy for the whole range of removable partial dentures from combined fixed-removables restorations to clasp-retained dentures.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 pursuant DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and extremely corrosion resistant
- › High wearing comfort due to low thermal conductivity
- › Composition:  
Co: 62,7% Cr: 29% Mo: 6% C,Fe,Si,Mn: <1%

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Excellent for casting of 3D printed plastic parts
- › Especially patient-friendly due to a low thermal conductivity
- › System-free working due to very good alloy properties
- › Universally applicable for clasp-retained prostheses and combined techniques
- › Pleasant polishing properties and easy finishing
- › Optimal conditions for laser welding
- › Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	132100
250g	132250



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	500MPa
Ultimate tensile strength	760MPa
Elongation	6%
Elastic modulus	250GPa
Vickers hardness	380 HV 10
Density	8,1g/cm <sup>3</sup>
Melting range	1200 - 1385°C
Preheating temperature	850 - 950°C
Casting temperature	1485 - 1540°C
CTE (20-600°C)	14,9 x 10 <sup>-6</sup> K <sup>-1</sup>
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

❖ STARBOND CO

CoCr partial denture alloy (bondable) for sophisticated combined restorations and gracile clasp design.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 pursuant to DIN EN ISO 22674
- › Excellent degree of purity
- › Biocompatible and extremely corrosion resistant
- › High wearing comfort due to low thermal conductivity
- › Spring hard
- › Composition:  
Co: 62% Cr: 30% Mo: 5,5% Si: 1% C,Fe,Mn:<1%

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Universally applicable for clasp-retained prostheses, combined techniques and ceramic restorations
- › Excellent for casting of 3D printed plastic parts
- › System-free working due to very good alloy properties
- › Pleasant polishing properties and easy finishing
- › Optimal conditions for laser welding
- › Application flexibility and easy melting, no sparking

QUANTITY	REF
1000g	132000



TECHNICAL PROPERTIES:	
Proof stress (Rp 0.2)	662MPa
Ultimate tensile strength	877MPa
Elongation	>4%
Elastic modulus	200 - 210GPa
Vickers hardness	420 HV 10
Density	8,7g/cm <sup>3</sup>
Melting range	1320 - 1400°
Preheating temperature	850 - 950°C
Casting temperature	1500 - 1550°C
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

❖ MOGUCAST EH

CoCr partial denture alloy for sophisticated combined restorations.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 pursuant to DIN EN ISO 22674
- › Excellent degree of purity
- › Biocompatible and extremely corrosion resistant
- › High wearing comfort due to low thermal conductivity
- › Spring hard
- › Composition:  
Co: 62% Cr: 25% W: 9% Nb:2% C,V,Mo,Mn,Si:<1%

ADVANTAGES FOR DENTAL TECHNICIANS:

- › Particularly suitable for extremely graceful removables
- › Ideal alloy for restorations which are exposed to very high loads
- › Excellent for casting of 3D printed plastic parts
- › Universally applicable for clasp-retained prostheses and combined techniques
- › Pleasant polishing properties and easy finishing
- › Optimal conditions for laser welding
- › System-free working due to very good alloy properties

QUANTITY	REF
1000g	132200





# 02

## NON-PRECIOUS METAL MILLING DISCS (NPM)

Dental alloys already proven in conventional dental technology are also available as milling blanks. The same alloy components and compositions with excellent processing properties allows the user to work in one alloying system.

- ✦ STARBOND EASY DISC
- ✦ MOGUCERA C DISC
- ✦ STARBOND COS DISC BASIC
- ✦ STARBOND COS SOFT DISC
- ✦ STARBOND TI5 DISC
- ✦ STARBOND TI4 DISC
- ✦ FUSIONIS DISC





STARBOND EASY DISC

CoCrW milling disc outstanding for manufacturing of crowns, bridges, frameworks, telescopes, bars, attachments, implant-supported superstructures and abutments. Starbond Easy Disc is based on a proven veneering alloy already used in conventional casting technique.

- Free of nickel, beryllium, cadmium and lead
- Type 4 pursuant to DIN EN ISO 22674
- Composition in percent by mass:  
Co: 61% Cr: 27,5% W: 8,5% Si: 1,6% C,Mn,Fe: <1%

ADVANTAGES FOR USERS:

- Medium hardness of 289 HV 10
- Excellent metal-ceramic bonding
- No cooling phase required, depending on the ceramics
- High biocompatibility
- Easy polishing
- Laser weldable, suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	416MPa	Density	8,6g/cm³
Ultimate tensile strength	663MPa	CTE (20-500°C)	14,3 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	18%	CTE (20-600°C)	14,6 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	191GPa	Laser weldable	Yes
Vickers hardness	289 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	140508
10mm x 98,3mm		140510
12mm x 98,3mm		140512
13,5mm x 98,3mm		140513
15mm x 98,3mm		140515
16mm x 98,3mm		140516
18mm x 98,3mm		140518
20mm x 98,3mm		140520
25mm x 98,3mm		140525
30mm x 98,3mm		140530
8mm x 99,5mm	without edge	140008
10mm x 99,5mm		140010
12mm x 99,5mm		140012
14mm x 99,5mm		140013
15mm x 99,5mm		140015
16mm x 99,5mm		140016
18mm x 99,5mm		140018
20mm x 99,5mm		140020
25mm x 99,5mm		140025
30mm x 99,5mm		140030



MOGUCERA C DISC

CoCrMo milling disc with excellent properties for the manufacture of crowns, bridges, frameworks, telescopes, bars, attachments, implant supported superstructures and abutments. MoguCera C Disc is based on a non-precious ceramic alloy already used in the conventional casting technology.

- Free of nickel, beryllium, cadmium and lead
- Type 4 pursuant to DIN EN ISO 22674
- Composition in percent by mass:  
Co: 65% Cr: 28% Mo: 5% C,Si,Nb,Mn,Fe: <1%

ADVANTAGES FOR USERS:

- Medium hardness of 288 HV 10
- Excellent metal-ceramic bonding
- No cooling phase required, depending on the ceramics
- Particularly biocompatible
- Easy to work with and very easy to polish
- Laser weldable, suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	413MPa	Density	8,3g/cm³
Ultimate tensile strength	597MPa	CTE (20-500°C)	14,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	12%	CTE (20-600°C)	14,8 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	206GPa	Laser weldable	Yes
Vickers hardness	288 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	138108
10mm x 98,3mm		138110
12mm x 98,3mm		138112
13,5mm x 98,3mm		138113
15mm x 98,3mm		138115
16mm x 98,3mm		138116
18mm x 98,3mm		138118
20mm x 98,3mm		138120
25mm x 98,3mm		138125
30mm x 98,3mm		138130
8mm x 99,5mm	without edge	138008
10mm x 99,5mm		138010
12mm x 99,5mm		138012
14mm x 99,5mm		138013
15mm x 99,5mm		138015
16mm x 99,5mm		138016
18mm x 99,5mm		138018
20mm x 99,5mm		138020
25mm x 99,5mm		138025
30mm x 99,5mm		138030



STARBOND COS DISC BASIC

CoCrWMo milling disc from our proven and successful product line Starbond CoS. This high-end product is specially designed for industrial milling units and is particularly suitable for the manufacture of crowns, bridges, frameworks, telescopes, bars, attachments, implant-supported superstructures and abutments.

- Free of nickel, beryllium, cadmium and lead
- Type 4 pursuant to DIN EN ISO 22674
- Composition in percent by mass:  
Co: 59% Cr: 25% W: 9,5% Mo: 3,5% Si: 1% C,Fe,Mn,N: <1%

ADVANTAGES FOR USERS:

- Excellent CTE of 14.2 ensures flexibility in ceramic selection
- No cooling phase required, depending on the ceramics
- Easy polishing
- Excellent metal-ceramic bonding and high biocompatibility
- Laser weldable, suitable for dry and wet milling

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	441MPa	Density	8,8g/cm³
Ultimate tensile strength	639MPa	CTE (20-500°C)	13,9 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	14%	CTE (20-600°C)	14,2 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	235GPa	Laser weldable	Yes
Vickers hardness	281 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	133514
10mm x 98,3mm		133516
12mm x 98,3mm		133513
13,5mm x 98,3mm		133511
15mm x 98,3mm		133517
16mm x 98,3mm		133518
18mm x 98,3mm		133512
25mm x 98,3mm		133525
30mm x 98,3mm		133530
8mm x 99,5mm	without edge	133504
10mm x 99,5mm		133506
12mm x 99,5mm		133503
14mm x 99,5mm		133501
15mm x 99,5mm		133507
16mm x 99,5mm		133508
18mm x 99,5mm		133502
25mm x 99,5mm		133509
30mm x 99,5mm		133510



STARBOND COS SOFT DISC

Binder based and powder pressed milling disc from a sintered CoCrWMo alloy. Starbond CoS Soft Disc is based on our proven dental alloy Starbond CoS. This material has a high bonding with conventional high-fusing (low expansion) ceramics.

- Free of nickel, beryllium, cadmium and lead
- Type 4 pursuant to DIN EN ISO 22674
- Composition in percent by mass:  
Co: 59% Cr: 25% W: 9,5% Mo: 3,5% Si: 1% C,Fe,Mn,N: <1%

ADVANTAGES FOR USERS:

- Sinterable with all common sintering furnaces
- Simplest processing with adjusted milling strategies and tools for PMMA
- High-strength Type 4 alloy with a wide range of applications
- Biocompatible

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	585MPa	Density	8,5g/cm³
Ultimate tensile strength	800MPa	CTE (20-500°C)	14,4 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	4%	CTE (20-600°C)	14,7 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	220GPa	Laser weldable	Yes
Vickers hardness	325 HV 10	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
10mm x 98mm	with edge	133610
12mm x 98mm		133612
14mm x 98mm		133614
18mm x 98mm		133618
20mm x 98mm		133620
25mm x 98mm		133625



STARBOND TI5 DISC

Milling disc made of grade 5 "ELI" (Extra Low Interstitial) titanium alloy TiAl6V4.

- Composition in percent by mass:  
Ti: 89,4% Al: 6,2% V: 4% N,C,H,Fe,O: <0,4%

ADVANTAGES FOR USERS:

- Ideal mechanical properties, manufactured according to ISO 5832-3 and ASTM F67
- Excellent bonding with ceramics for titanium
- Biocompatible
- Extremely corrosion resistant
- Particularly patient friendly due to low thermal conductivity
- Perfect suitable for implant-supported restorations, superstructures, bars and abutments

STARBOND TI4 DISC

Milling disc made of pure titanium with increased oxygen content (Grade 4).

- Composition in percent by mass:  
Ti: >99% N,C,H,Fe,O: <1%

ADVANTAGES FOR USERS:

- Ideal for example for the production superstructures, bars, abutments and partial dentures
- Perfect milling results
- Excellent bonding with ceramics for titanium
- Biocompatible
- Extremely corrosion resistant
- Particularly patient friendly due to low thermal conductivity

FUSIONIS DISC

CoCrMo milling disc for the production of fixed and removable dentures. The alloy properties, the quality and excellent milling results make Fusionis Disc the material of choice. The ideal material for the unique manufacture of removable partial dentures with clasps and retainers, telescope dentures, bars and attachments in CAD/CAM processes.

- Free of nickel, beryllium, cadmium and lead.
- Type 4 pursuant to DIN EN ISO 22674.
- Composition in percent by mass:  
Co: 63% Cr: 29% Mo: 5% C,Si,Nb,Mn,Fe: <1%

ADVANTAGES FOR USERS:

- Excellent machinability, validated process
- Ideal mechanical properties
- Average hardness of 290 HV 10
- Extremely corrosion resistant
- Biocompatible
- Excellent polishability and easy to use
- Laser weldable

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	837MPa	Density	4,4g/cm³
Ultimate tensile strength	921MPa	Melting point	1650°C
Elongation	15%	CTE (20-600°C)	10,3 x 10⁻⁶ K⁻¹
Vickers hardness	330HV5/30	Type (DIN EN ISO 22674)	4

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	504MPa	Density	4,5g/cm³
Ultimate tensile strength	599MPa	Melting point	1660°C
Elongation	23,5%	CTE (20-600°C)	9,7 x 10⁻⁶ K⁻¹
Vickers hardness	>200HV5/30	Type (DIN EN ISO 22674)	4

TECHNICAL PROPERTIES:			
Proof stress (Rp 0.2)	420MPa	Vickers hardness	290 HV 10
Ultimate tensile strength	650MPa	Density	8,3g/cm³
Elongation	10%	Laser weldable	Yes
Elastic modulus	210GPa	Type (DIN EN ISO 22674)	4

SIZES	EDGING	REF
8mm x 98,3mm	with edge	136508
10mm x 98,3mm		136510
12mm x 98,3mm		136512
13,5mm x 98,3mm		136513
15mm x 98,3mm		136515
16mm x 98,3mm		136516
18mm x 98,3mm		136518
25mm x 98,3mm		136525
30mm x 98,3mm		136530
8mm x 99,5mm	without edge	136008
10mm x 99,5mm		136010
12mm x 99,5mm		136012
14mm x 99,5mm		136013
15mm x 99,5mm		136015
16mm x 99,5mm		136016
18mm x 99,5mm		136018
25mm x 99,5mm		136025
30mm x 99,5mm		136030

SIZES	EDGING	REF
8mm x 98,3mm	with edge	135508
10mm x 98,3mm		135510
12mm x 98,3mm		135512
13,5mm x 98,3mm		135513
15mm x 98,3mm		135515
16mm x 98,3mm		135516
18mm x 98,3mm		135518
25mm x 98,3mm		135525
30mm x 98,3mm		135530
8mm x 99,5mm	without edge	135008
10mm x 99,5mm		135010
12mm x 99,5mm		135012
14mm x 99,5mm		135013
15mm x 99,5mm		135015
16mm x 99,5mm		135016
18mm x 99,5mm		135018
25mm x 99,5mm		135025
30mm x 99,5mm		135030

SIZES	EDGING	REF
18mm x 98,3mm	with edge	141118
25mm x 98,3mm		141125
18mm x 99,5mm	without edge	141018
25mm x 99,5mm		141025





# 03

## NON-PRECIOUS METAL POWDER (NPM)

High-quality superalloys for 3D technology for the manufacture of highly complex restorations in mass production using SLM\* systems.

- ✦ STARBOND COS POWDER
- ✦ STARBOND COS POWDER 30+
- ✦ STARBOND EASY POWDER 30
- ✦ STARBOND EASY POWDER 30+
- ✦ MODELSTAR S POWDER 65
- ✦ STARBOND TI POWDER 45

### Starbond CoS Powder 30

CoCrWMo-dental alloy powder  
(type 5) for the production of  
dental prostheses in the laser  
melting technology.

### Starbond CoS Pulver30

CoCrWMo-Dentallegierung  
(Typ 5) zur Herst  
Zahners  
Lasersch



STARBOND COS POWDER

CoCrWMo dental alloy powder for dentures manufacturing in a laser melting process. Starbond CoS Powder is based on the proven dental bonding alloy Starbond CoS. The user can thus continue to work in a system with the same alloy components and the same composition, as well as the same positive processing characteristics. The manufacturing process of the powder ensures the best possible flowability.

- › No cooling phase required, depending on ceramics
- › Excellent veneering
- › A CTE of 14.4 permits great flexibility in ceramic selection
- › Biocompatible
- › Extremely corrosion resistance
- › CE certified
- › Composition in percent by mass:  
Co: 59% Cr: 25% W: 9,5% Mo: 3,5% Si: 1% C,Fe,Mn,N:<1%



TECHNICAL PROPERTIES**:			
Proof stress (Rp 0.2)	720-1130MPa	Density	8,8g/cm³
Ultimate tensile strength	990-1250MPa	Melting range	1305-1400°C
Elongation	2-10%	CTE (20-600°C)	14,4 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	195-200GPa	Laser weldable	Yes
Vickers hardness	345-490 HV 10	Type (DIN EN ISO 22674)	5

VERSION	UNIT	SUITABLE FOR PROCESSING IN THE SYSTEMS	GRAIN Ø	REF
Starbond CoS Powder 16 <sup>(1)</sup>	5000g	PXS Dental* and PXM Dental*	-16µm	133716
Starbond CoS Powder 30 <sup>(1)</sup>	5000g	LaserCUSING* - and MYSINT*	+10/-30µm	133730
Starbond CoS Powder 45	5000g	EOSINT M* and SLM 125 HL*	+10/-45µm	133715
Starbond CoS Powder 55	5000g	rapidPro*, SLM50* and SLM100*	+10/-55µm	133755

(1) not available in the markets DE, FR, SP, GB, SW // \* PXS Dental and PXM Dental are registered trademarks of the company PHENIX Systems // \* Hint-Els rapidPro is a registered trademark of the company Hint-Els GmbH // \* SLM 50 and SLM 100 are registered trademarks of the company Realizer GmbH // \* LaserCUSING is a registered trademark of the company ConceptLaser GmbH // \* EOSINT M is a registered trademark of the company EOS GmbH // \* SLM 125H is a registered trademark of the company SLM Solutions GmbH // \* MYSINT is a registered trademark of the company Sisma SpA // \*\* Standard values; dependent on specific machine settings

STARBOND COS POWDER 30+

CoCrWMo dental alloy powder for dentures manufacturing in a laser melting process. The powder manufacturing process ensures best flowability and thus the guarantee of a homogenous coating. Starbond CoS Powder 30+ is ideally suited for the use on M100\*, LaserCusing\* and MYSINT\* systems.

- › No cooling phase required, depending on ceramics
- › Excellent veneering
- › A CTE of 14.4 permits great flexibility in ceramic selection
- › Biocompatible
- › Extremely corrosion resistance
- › CE certified
- › Composition in percent by mass:  
Co: 59% Cr: 25% W: 9,5% Mo: 3,5% Si: 1% C,Fe,Mn,N:<1%



TECHNICAL PROPERTIES**:			
Proof stress (Rp 0.2)	1130MPa	Density	8,8g/cm³
Ultimate tensile strength	1250MPa	Melting range	1305-1400°C
Elongation	2-10%	CTE (20-600°C)	14,4 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	195GPa	Laser weldable	Yes
Vickers hardness	490 HV 10	Type (DIN EN ISO 22674)	5

VERSION	UNIT	SUITABLE FOR PROCESSING IN THE SYSTEMS	GRAIN Ø	REF
Starbond CoS Powder 30+	5000g	M100*, LaserCUSING* - and MYSINT*-Systems	<75µm	133731

\* LaserCUSING is a registered trademark of ConceptLaser GmbH // \* MYSINT is a registered trademark of Sisma SpA // \* M100 is a registered trademark of EOS GmbH // \*\* Standard values; dependent on specific machine settings  
Determined after thermal treatment / Simulation of ceramic firing



STARBOND EASY POWDER 30

CoCrW dental alloy powder for dentures manufacturing in a laser melting process. The user benefits from the same outstanding characteristics of our Starbond Easy dental alloy and can thus work in a proven system. Positive processing properties and the alloy components ensures maximum flexibility in ceramic selection and also guarantees excellent veneering.

- › Composition in percent by mass:  
Co: 61% Cr: 27,5% W: 8,5% Si: 1,6% C,Fe,Mn: <1%

TECHNICAL PROPERTIES**:			
Proof stress (Rp 0.2)	760MPa	Melting range	1310-1410°C
Ultimate tensile strength	1090MPa	CTE (25-500°C)	14,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	15%	CTE (25-600°C)	14,7 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	225GPa	Laser weldable	Yes
Vickers hardness	425 HV 10	Type (DIN EN ISO 22674)	5
Density	8,5g/cm³		

VERSION	UNIT	SUITABLE FOR PROCESSING IN THE SYSTEMS	GRAIN Ø	REF
Starbond Easy Powder 30 <sup>(1)</sup>	5000g	LaserCUSING*, M100* and MYSINT*-Systems	+10/-30µm	140730

(1) not available in the markets DE, FR, SP, GB, SW // \* LaserCUSING is a registered trademark of ConceptLaser GmbH // \* MYSINT is a registered trademark of Sisma SpA // \* M100 is a registered trademark of EOS GmbH // \*\* Standard values; dependent on specific machine settings

STARBOND EASY POWDER 30+

CoCrW dental alloy powder for manufacturing of fixed and mobile dentures in a laser melting process. The user benefits from the same outstanding characteristics of our Starbond Easy dental alloy and can thus work in a proven system. The manufacturing process ensures excellent flowability of the material.

- › Composition in percent by mass:  
Co: 61% Cr: 27,5% W: 8,5% Si: 1,6% C,Fe,Mn: <1%



TECHNICAL PROPERTIES**:			
Proof stress (Rp 0.2)	755MPa	Melting range	1310-1410°C
Ultimate tensile strength	1100MPa	CTE (25-500°C)	14,5 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	9%	CTE (25-600°C)	14,7 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	165GPa	Laser weldable	Yes
Vickers hardness	420 HV 10	Type (DIN EN ISO 22674)	5
Density	8,6g/cm³		

VERSION	UNIT	SUITABLE FOR PROCESSING IN THE SYSTEMS	GRAIN Ø	REF
Starbond Easy Powder 30+	5000g	LaserCUSING*, M100* and MYSINT*-Systems	<75µm	140731

\* LaserCUSING is a registered trademark of ConceptLaser GmbH // \* MYSINT is a registered trademark of Sisma SpA // \* M100 is a registered trademark of EOS GmbH // \*\* Standard values; dependent on specific machine settings  
Determined after thermal treatment / Simulation of ceramic firing



COCR AND TI ALLOY POWDER

✦ MODELSTAR S POWDER 65

CoCr-dental alloy powder for dentures manufacturing in a laser melting process. Modelstar S Powder is based on the Modelstar S partial denture alloy. This guarantees the successful production of dentures with a well-proven dental material.

- › Manufactured pursuant to DIN EN ISO 5832-4 and ASTM F75
- › Composition in percent by mass:  
Co: 61,5% Cr: 28,5% Mo: 6% C,Fe,Mn,Si: <1%



TECHNICAL PROPERTIES**:			
Proof stress (Rp 0.2)	560MPa	Melting range	1490-1540°C
Ultimate tensile strength	960MPa	CTE (20-600°C)	14,4 x 10 <sup>-6</sup> K <sup>-1</sup>
Elongation	20%	Laser weldable	Yes
Vickers hardness	340 HV 10	Type (DIN EN ISO 22674)	5
Density	8,4g/cm <sup>3</sup>		

VERSION	UNIT	SUITABLE FOR PROCESSING IN THE SYSTEMS	GRAIN Ø	REF
ModelStar S Powder 65	5000g	on request	<65µm	132165

\*\* Standard values; dependent on specific machine settings

✦ STARBOND Ti4 POWDER 45

Grade 4-titanium powder for dentures manufacturing in a laser melting process. Starbond Ti4 Powder 45 is biocompatible, with high strength properties and a wide range of indications. Perfectly suitable for the production of bars, crowns, bridges and partial dentures.

- › Manufactured pursuant to DIN EN ISO 5832-2
- › Composition in percent by mass:  
Ti: 99% N,C,H,Fe,O: <1%



TECHNICAL PROPERTIES**:			
Proof stress (Rp 0.2)	630MPa	Density	4,5g/cm <sup>3</sup>
Ultimate tensile strength	720MPa	Melting range	1600°C
Elongation	>24%	CTE (20-600°C)	6,7 x 10 <sup>-6</sup> K <sup>-1</sup>
Elastic modulus	105GPa	Laser weldable	Yes
Vickers hardness	>200 HV 5/30	Type (DIN EN ISO 22674)	4

VERSION	UNIT	SUITABLE FOR PROCESSING IN THE SYSTEMS	GRAIN Ø	REF
Starbond Ti Powder 45	2500g	SLM125 – further systems on request	+10/-45µm	135715

\*\* Standard values; dependent on specific machine settings

04

CAD/CAM PRODUCTS

Wax and PMMA blanks for the manufacture of crowns and bridges in wax or PMMA and also for temporaries.

- ✦ MILLSTAR WAXBLANK
- ✦ PMMA STARBLANK CAST
- ✦ PMMA STARBLANK PROVI



WAX AND PMMA DISCS

MILLSTAR WAXBLANK

Disc made of synthetic wax for the manufacturing of wax models\* that burn out without residue. Ideal for the production of crown and bridge frameworks, inlays / onlays for metal casting and press technology within CAD / CAM processes.

- › Colour: Ivory (more colours on request)

SIZES	EDGING	REF
16mm x 98,3mm	with edge	555016
20mm x 98,3mm		555020
16mm x 100mm	without edge	555116
20mm x 100mm		555120

\* Attention: Not intended for use in the oral cavity!



PMMA STARBLANK CAST

Disc made of transparent polymethylmethacrylate (PMMA) for the production of frameworks for casting and overpress technique.

- › Burns out without residue
- › Easily to mill, no lubrication (depending on spindle speed and milling tools quality)
- › Also usable for longspan restorations

SIZES	COLOUR	REF
15mm x 98mm	transparent	800215
20mm x 98mm		800220



PMMA STARBLANK PROVI

Disc made of thermoplastic resine (PMMA) in standard, classic tooth colours as well as in bleaching colours for the production of high-quality long-term temporaries.

- › Excellent milling and polishing properties
- › Outstanding colour fidelity and natural translucence
- › Good plaque resistance
- › Wearing time of temporaries up to 10 months
- › No residual monomer content

SIZES	COLOURS	REF
15mm x 98mm	A1	800026
	A2	800000
	A3	800101
	B1	800005
	B2	800002
	BL1	800028
	BL2	800030
20mm x 98mm	BL3	800032
	A1	800027
	A2	800010
	A3	800011
	B1	800025
	B2	800012
	BL1	800029
	BL2	800031
	BL3	800033

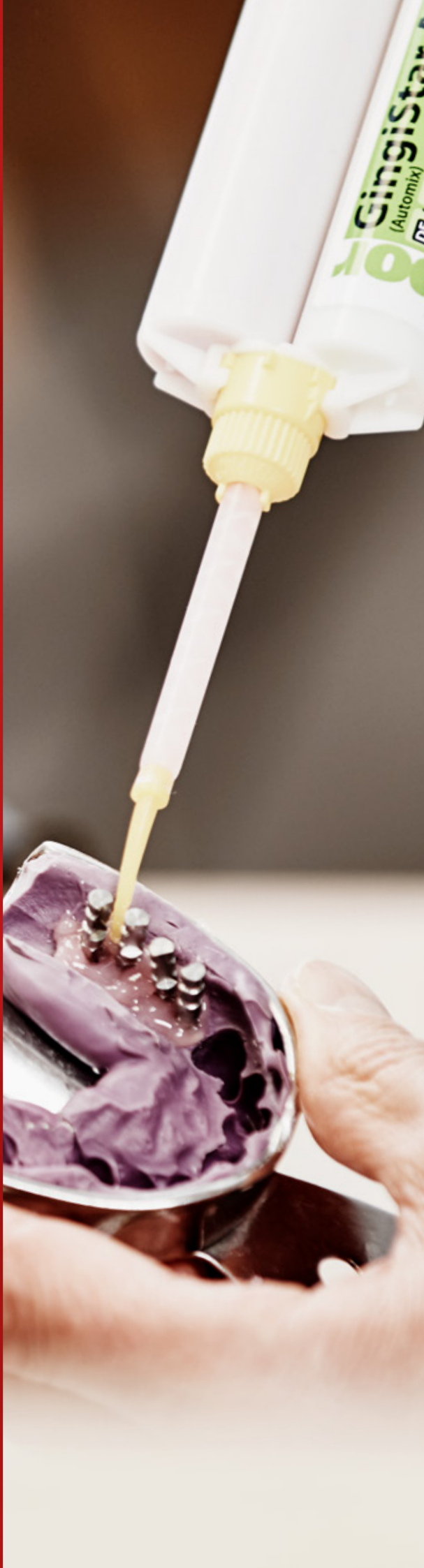


05

WORK PREPARATION AND MODEL PRODUCTION

Aids for plastering, impression materials and modeling waxes.

- ✦ DIE SPACER
  - ✦ THINNER
  - ✦ HARDENER
  - ✦ ISOGIPS CLASSIC
  - ✦ ISOGIPS
  - ✦ ISOSIL
  - ✦ ISOPLAST
  - ✦ DOUBLESTAR
  - ✦ DEBUBBLIZER & WAX PATTERN CLEANER
- ✦ DOWEL PINS
  - ✦ GINGISTAR
  - ✦ WAXSTAR
  - ✦ BLOCKSTAR
  - ✦ BLOCKSTAR SCANWAX
  - ✦ MEDICLEAN DAVIDO
  - ✦ BAKTERIOSOL DAVIDO







DIE SPACER

Abrasion-resistant and quick-drying die spacer as a placeholder for the cement gap. The plaster die is painted with the die spacer before wax-up.

- Available in various colors and thicknesses
- Steam cleaning resistant with particularly scratch-resistant and smooth surfacing properties
- Short curing time
- Thermal resistant
- The hardening of the gypsum surface takes place with Hardener without layering it.

VERSION	THICKNESS	REF
25ml clear	4µm	230213
25ml red	8µm	230207
25ml blue	10µm	230209
25ml silver	13µm	230206
25ml gold	15µm	230205

\* Caution: Use for our Die Spacer and Hardener exclusively our Thinner, thus the positive characteristics of our varnish are still guaranteed.



THINNER

The universal thinner for Die Spacers allows you to reset the varnishes to the original consistency. Optionally it is also possible to create an individual consistency for Die Spacers and Hardener.

VERSION	REF
25ml clear	230211



HARDENER

Creates a surface and depth curing, thus protecting the plaster die from mechanical stresses. The resulting surface is smooth and extremely scratch resistant.

VERSION	REF
25ml clear	230212



ISOGIPS CLASSIC

Classic separating agent for plaster on plaster and plaster on metal with simultaneous sealing of the plaster surface.

- Fast and safe separation
- Does not leave a film
- Neutral odor

VERSION	REF
1000ml	230370



ISOGIPS

Ideal for the insulation between impression plaster and gypsum model as well as between model stump and base for saw cut models. Specially designed for saw cut models, splitcast techniques and all model systems. Also suitable for plastic base systems.

VERSION	REF
250ml Spray	230360



ISOSIL SILICON SPRAY

Silicone spray for the maintenance of trimmers, cuvettes, articulators or vibrating units.

- Prevents the adhesion of gypsum
- Protects against aggressive investment materials

VERSION	REF
400ml spray	230380



ISOPLAST

Alginate insulation for plaster models in acrylic prosthetics.

- Free of formaldehyde
- Excellent insulation
- High accuracy

VERSION	REF
1000ml	230345



20% MORE CONTENT compared to most of the competitor products

DOUBLESTAR

Precision Duplicating A-silicone basis for the duplication of plaster models. Perfect handling, as extremely tear resistant and dimensionally stable, paired with perfect flowability. Extraordinary reproduction precision and high elasticity guarantee error-free duplicates.

- Shore hardness of approx. 22
- Curing time of approx. 15 min

VERSION	REF
Base 1000ml (1,2kg) + catalyst 1000ml (1,2kg)	800001



DEBUBBLIZER & WAX PAT. CLEANER

Surface tension releasing agent for impressions, duplicating silicones and all waxes for better flow and adhesion of the investment material or gypsum. Degreases and cleans the wax objects before investment, creating smooth and cavity-free surfaces within all processes.

VERSION	REF
100ml spray	230400
1000ml refill	230410



DOWEL PINS

Model pins made of polished brass with and without guide plug in two sizes.

VERSION	REF
1000 × Size 1 without guide plug	230281
1000 × Size 1 with guide plug	230283
1000 × Size 2 without guide plug	230282
1000 × Size 2 with guide plug	230284



GINGISTAR (AUTOMIX)

Addition curing silicone for the production of gingival masks. A precise representation of the gingival line e.g. for implant cases, for demanding crown and bridge restorations or for reproduction of the gingiva in CAD/CAM procedures. Also available in a hard, sandable version (especially for implant cases).

- Good grindability (GingiStar H), combined with excellent elasticity and tensile strength
- Easy handling due to automatic mixing and direct application from cartridges

VERSION	REF
2 × 50ml cartridges (A-Automix) + 12 cannulas + 12 application tips	800092
2 × 50ml cartridges (H-Automix hart) + 12 cannulas + 12 application tips	800092H
20 cannulas + 20 application tips	800092Z
GingiStar DS50 Injector	800090





✦ WAXSTAR PREPARATION WAX

Preparation wax as a space creator for retentions and lingual bars.

- › Excellent dimensional and margin stability
- › Soft and self-adhesive
- › Very good fitting on the model surface
- › Easy removal from the master model after doubling

VERSION	PACKAGE	REF
Transparent 0,5mm × 100mm × 100mm	32 Stück	561750



✦ BLOCKSTAR

Special wax for blocking out undercuts and rough surfaces. Due to excellent adhesion to the model and not to the instrument it is easy and safe to process. Furthermore, BlockStar can be scraped perfectly.

VERSION	REF
70g pink	521480

\* Not suitable as casting wax!



✦ BLOCKSTAR SCANWAX

Perfect scanable modeling wax for all common CAD/CAM applications. Particularly suitable for WaxUps, for blocking out small cavities or undercuts and for filling saw cuts before scanning. Even thin wax layers ensures a data density and guarantees best scanning results.

VERSION	REF
70g green	521630

✦ MEDICLEAN DAVIDO

Gentle cleansing handwash gel with skin-friendly, gentle active substances. The simultaneous re-greasing function prevents drying of the skin even with frequent cleaning.

- › Ingredients: Aqua, Sodium Laureth Sulfate, Cocamidopropyl Betaine, Sodium Lauroyl Glutamate, Cocamide Dea, Sodium Chloride, Parfum, Methylisothiazolinone, Benzyl Alcohol, Benzylsalicylat, CI 61585

VERSION	REF
500ml dispenser bottle	670100
5000ml can	670150



✦ BAKTERIOSOL DAVIDO

Antimicrobial gel for cleansing and care of hands. Suitable for hand cleaning without water. The simultaneous re-greasing function prevents drying of the skin even with frequent cleaning. Tested for antimicrobial efficacy and dermatological tolerability

- › Ingredients: Aqua, Alcohol Denat., Isopropyl alcohol, Peg-40 Hydrognated Castor Oil, Acrylates C10-C30 Alkyl Acrylate Crosspolymer, Triethanolamine, Parfume, C.I. 61585

VERSION	REF
500ml gel dispenser bottle	670200
5000ml gel can	670250







# 06

## MODELATION

Waxes for the modeling of partial dentures and crown restorations with the help of the dipping and wax-up technique.

- ✦ STARDIP A
- ✦ ISOWACHS
- ✦ FLECTODIP
- ✦ KRATODIP
- ✦ STARMOD C
- ✦ ALLROUNDSTAR
- ✦ INLAYSTAR
- ✦ STARMOD
- ✦ STARMOD F/F PUR
- ✦ DIAGNOSTIC WAXSTAR
- ✦ STICKYSTAR
- ✦ SPRUESTAR
- ✦ WIRESTAR HARD
- ✦ DEBUBBLIZER  
& WAX PATTERN CLEANER
- ✦ WAX PROFILE
- ✦ LINGUAL BAR
- ✦ WAXSTAR PARTIAL
- ✦ PARTISTAR
- ✦ WAXSTAR RETENTION
- ✦ BLOCKSTAR
- ✦ WAXSTAR PREP. WAX
- ✦ CASTING WAXSTAR
- ✦ GLUESTAR
- ✦ SET-UP WAX
- ✦ STARBITE
- ✦ HANDYTORCH LABO
- ✦ S&S WAX BRUSH





DIPPING WAX POT STARDIP A

- Precisely adjustable working temperature
- Very reliable with good price-performance ratio
- Temperature: 60°C – 105°C, adjustable
- Housing dimensions: 6.0 x 8.0 x 8.0 cm
- Power: 230 V

VERSION	REF
1 piece	500115



ISOWACHS

Excellent water based separating agent for waxes, particularly for the dipping technique.

- Insulates against waxes, plasters and metals
- Solvent-free and water soluble

VERSION	REF
25ml brush-on-bottle	230330
100ml refill bottle	230335

FLECTODIP

Positive physical properties of wax and plastic copings are combined with Flecto-Dip dipping wax. The flexible elastic material can be processed almost perfectly, without the slightest distortion during lifting, cutting or scraping. A simple adaption with highest accuracy of fit is ensured. Without opacifying components so an optical control of the thickness is ensured. It is also suitable for the press ceramic.

- Working temperature: 87 °C

VERSION	REF
180g orange	523000
180g violet	523010
180g yellow	523020



KRATODIP

Same positive physical properties as "Flecto-Dip". The flexible-elastic material can be processed almost perfectly, without the slightest distortion during lifting, cutting or scraping. A simple adaptation with highest accuracy of fit is ensured. Without opaque components, thus an optical control of the thickness is ensured. It is also suitable for the press ceramic.

- Slightly harder than FlectoDip, thus resemblance to thermoformed acrylic copings
- Coping thickness at 84°C approx. 0.4mm

VERSION	REF
180g yellow	523100
180g green	523110

STARMOD C

A precise cervical wax for the crown margin design. Since it does not have any opaque components, the cervical margin is better seen and the suitability for all-ceramic systems is additionally guaranteed.

- Lowest shrinkage
- Form stable
- Non-lubricating, non-friable
- Tension-free
- Working temperature: 59 °C.

VERSION	REF
70g red	521400
70g blue	521410



INLAYSTAR

Special modeling wax for the needs of the inlay technique

- Allows a pleasant modelation for users eyes
- Dimension stable and low contraction
- Working temperature: 53° C

VERSION	REF
70g beige	521210



ALLROUNDSTAR

Allround modeling wax for the construction of exact marginal edges up to the modeling of cusps by "drawing" the wax. An excellent scraping behavior up to extreme dimensional stability and low contraction are perfect properties and exactly the requirements which a dental technician needs for a modeling wax. AllroundStar is available in addition to the classic blue and green colours, also in the colours beige and caramel. These are very comfortable and low-fatigue for the eye due to their harmonious contrast to the plaster model.

- Working temperature 55°C

VERSION	REF
70g caramel	521050
70g beige	521055
70g green	521065
70g blue	521070







✦ STARMOD

The ideal modeling wax for gnathological waxing techniques. Available in 2 different hardnesses: Hard / 57°C, Regular / 55°C.

- › High stability
- › Precise drawing of the wax
- › Leaves smooth surface

VERSION	HARDNESS	REF
70g grey	hard	521010H
70g ivory	hard	521020H
70g blue	hard	521030H
70g ivory	regular	521020
70g blue	regular	521030

✦ STARMOD F / STARMOD F PUR

In combined techniques different demands are made of the waxes. In the case of pure milling, nothing should lubricate, the wax must be hard. When scraping on the other hand, the wax should be not too hard. Since it is almost impossible to combine both requirements in one wax, we have adapted our milling waxes to the respective application areas.

- › StarMod F = Milling and Scraping, working temperature 57°C
- › StarMod F Pur = Milling, working temperature 58°C

VERSION	APPLICATION	REF
70g StarMod F green	milling and scraping	521100
70g StarMod F mint green	milling	521130



✦ DIAGNOSTIC WAXSTAR

A wax which is suitable for an aesthetic wax-up as well as for the pressed ceramic at the same time. By using purely organic ingredients, Diagnostic WaxStar burns absolutely without residue. The Vita basic colors A-B-C-D as well as white ensure a fitting, which is almost the finished work. Diagnostic wax is available in the 70 g tin, or as a complete set in 5 x 9 g.

- › Working temperature: 54 °C



VERSION	REF
70g white	521700
70g dentin A	521710
70g dentin B	521720
70g dentin C	521730
70g dentin D	521740
5x 9g SET with all 5 colour shades	521750



OK  
PRESSABLE  
CERAMIC

✦ STICKYSTAR

The adhesive sticks enable better treatment and prevent the distortion of the casting object when removing from the model.

VERSION	CROSS-SECTION	REF
70g round	Ø 3mm	522210
150g round	Ø 4mm	522230
150g round	Ø 5mm	522240
70g square	2,5x2,5mm	522110

✦ SPRUESTAR / SPRUESTAR XL

SprueStar is the optimised wax casting pear, with the result, that less turbulence occurs in the injected melting due to the nozzle shape of the casting duct. A continous treating of the casting is simplified and improved by flooding with the small waxing casting stick.

- › Simple and metal saving separating
- › Duct diameter only 3mm
- › No blowholes
- › 3 different reservoir sizes

- SprueStar XL (for NPM)
- › Optimised wax casting pear



OK  
PRESSABLE  
CERAMIC

VERSION	RESERVOIR	REF
300 Sticks with wax casting pear	Ø 6mm	521900
200 Sticks with wax casting	Ø 7mm	521905
155 Casting sticks	Ø 8mm	521910
200 XL Sticks with wax casting pear	Ø 8mm	521880
180 XL Sticks with wax casting pear	Ø 9mm	521890



OK  
PRESSABLE  
CERAMIC

✦ WIRESTAR HARD

An ideal wire wax for crown, bridge and model casting technique, which can be flexed and deformed without any effort.

- › Dimensionally stable and tension-free

VERSION	Ø	REF
250g green	2,5mm	522010H
250g green	3mm	522020H
250g green	3,5mm	522030H
250g green	4mm	522040H
250g green	5mm	522050H





**PARTISTAR**

Wax for casting partial dentures which is perfectly tailored to the finished wax parts. Seamless transitions are also optimally achievable due to the optimum flow behavior. Smoother modeling results in a shorter processing time.

VERSION	REF
70g turquoise	561700



**WAX PROFILE WIRES IN RODS**

Easy fixation and good adhesion.

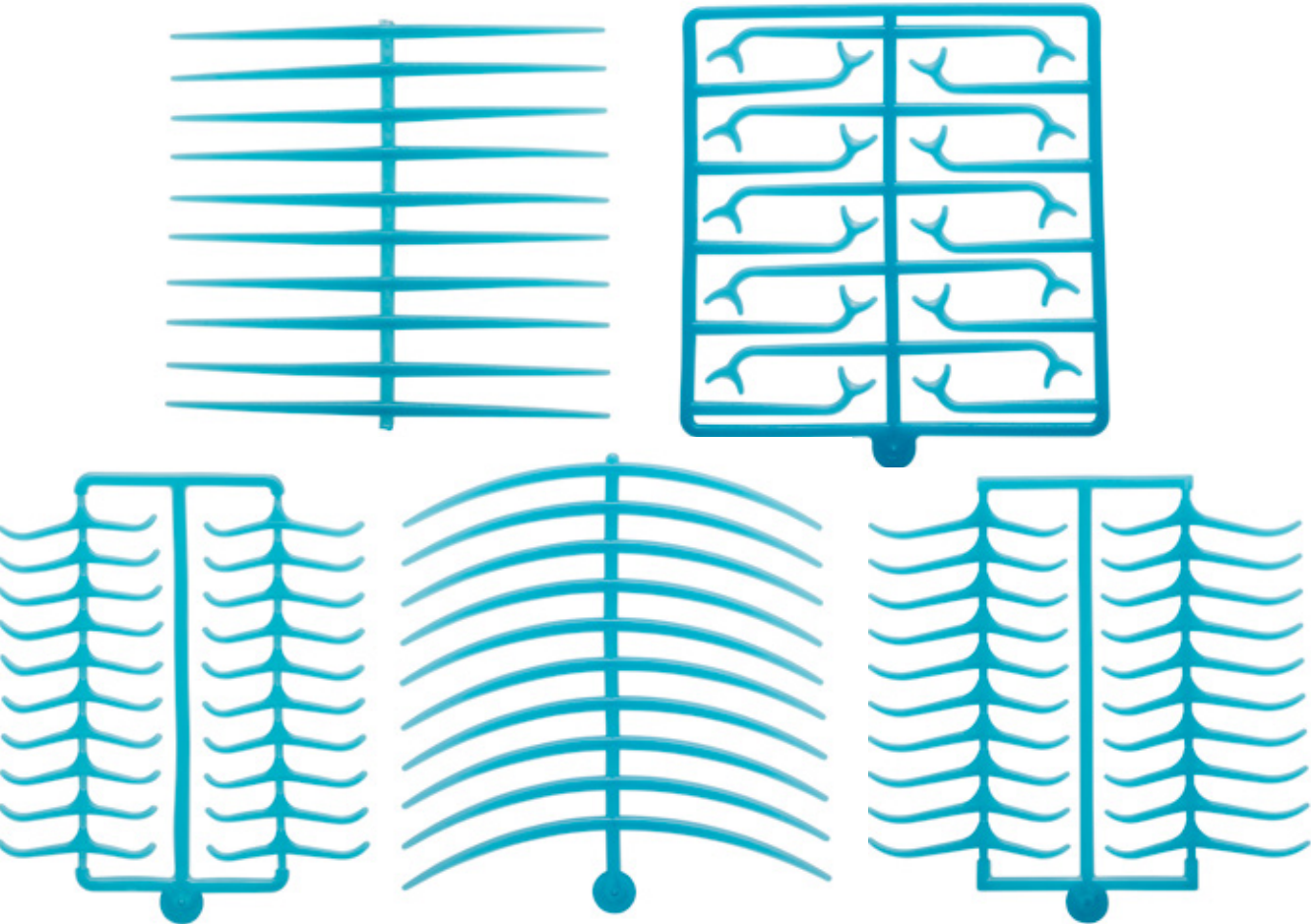
VERSION	Ø	REF
25g emerald green	0,8mm	561630

**WAXSTAR LINGUAL BAR**

Perfomed lingual bar, drop-shape

- › Tension-free, easily adaptable
- › Perfect for tersion-free connections
- › No folds and fissures when bending

VERSION	SIZE	REF
65g emerald green	4x2mm	561600



**WAXSTAR PARTIAL TECHNIQUE**

Prefabricated clasp profiles made of wax.

- › Burns without residue
- › Form stable
- › Tension-free adaptation to the model
- › Anatomically shaped

VERSION	PACK.	REF
A-1 Premolar clasps turquoise	10x20 pieces	561400
A-2 Molar clasps turquoise	10x20 pieces	561410
A-3 Ring clasps curved turquoise	10x20 pieces	561420
A-4 Ring clasps straight turquoise	10x20 pieces	561430
A-5 Bonyhard clasps turquoise	10x20 pieces	561440

**BLOCKSTAR**

Special wax for blocking out undercuts and rough surfaces. Due to excellent adhesion to the model and not to the instrument it is easy and safe to process. Furthermore, BlockStar can be scraped perfectly.

VERSION	REF
70g pink	521480

\* Not suitable as casting wax!



**DEBUBBLIZER & WAX PAT. CLEANER**

Surface tension releasing agent for impressions, duplicating silicones and all waxes for better flow and adhesion of the investment material or gypsum. Degreases and cleans the wax objects before investment, creating smooth and cavity-free surfaces within all processes.

VERSION	REF
100ml spray	230400
1000ml refill	230410

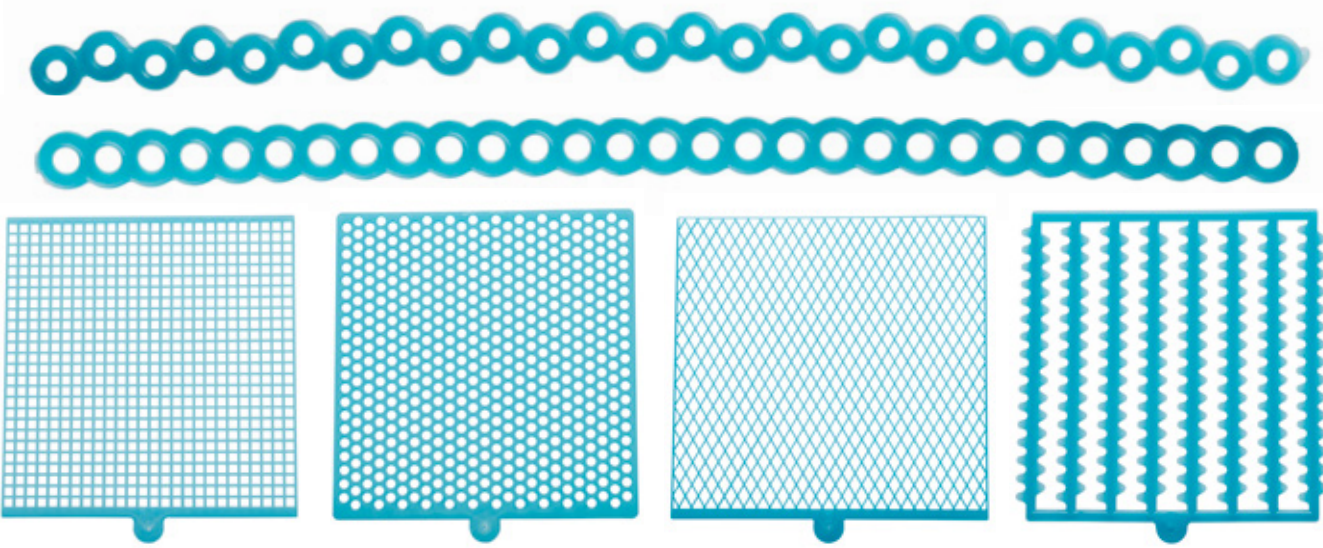


**WAXSTAR PREPARATION WAX**

Preparation wax as a space creator for retentions and lingual bars.

- › Excellent dimensional and margin stability
- › Soft and self-adhesive
- › Very good fitting on the model surface
- › Easy removal from the master model after doubling

VERSION	PACK.	REF
Transparent 0,5mm x 100mm x100mm	32 pcs.	561750



VERSION	PACK.	REF
Retention grid fine - upper jaw	20 pcs.	561500
Retention grid diagonal - upper jaw	20 pcs.	561510
Round hole grid - upper jaw	20 pcs.	561520
Bar retention - lower jaw	10 pcs.	561530
Hole retention straight - lower jaw	40 pcs.	561540
Hole retention displaced - lower jaw	40 pcs.	561550

**WAXSTAR RETENTION**

Retentions for partial dentures and also for strengthening of full acrylic dentures.

- › Tension-free
- › Easy to adapt
- › In various versions available





CASTING WAXSTAR

This casting wax possesses good modelleing features and tearing resistance. It adheres securely and easily to the duplicate model. Available in turquoise and in various designs.

- › Time-saving and and simplified modelling
- › Burns without residue
- › Excellent properties and tension-free adaption to the model
- › Precise fitting and accurate casting results

VERSION	THICKN.	STRUCT.	PACK.	REF
75x150mm, turquoise	0,30mm	smooth	15 Pl.	561030
	0,35mm		15 Pl.	561035
	0,40mm		15 Pl.	561040
	0,50mm		15 Pl.	561050
	0,60mm		15 Pl.	561060
	0,30mm	fine grained	15 Pl.	561130
	0,35mm		15 Pl.	561135
	0,40mm		15 Pl.	561140
	0,50mm		15 Pl.	561150
	0,60mm		15 Pl.	561160
	0,30mm	coarse grained	15 Pl.	561230
	0,35mm		15 Pl.	561235
	0,40mm		15 Pl.	561240
	0,50mm		15 Pl.	561250
	0,60mm		15 Pl.	561260
	0,30mm	veined	15 Pl.	561330
	0,35mm		15 Pl.	561335
	0,40mm		15 Pl.	561340
	0,50mm		15 Pl.	561350
	0,60mm		15 Pl.	561360



GLUESTAR (ADHESIVE WAX)

Special wax with extremely strong adhesive properties. Suitable for fixation of breakage repairs, teeth, wax rims and soldering of metal parts. Distortion is impossible due to the high hardness. can be easily removed e.g. by using a steam jet.

VERSION	REF
70g red	521455



SET-UP WAX

Set-Up Wax meets all the requirements of the demanding dental technician places on wax plates. It has a high plasticity, can be modeled well and will not reset when deformed. For different ambient temperatures, there are three different qualities available.

- › Size of the plates: 175x80mm

VERSION	PACK.	REF
Winter 1,25mm	2,5kg	524010
	500g	524020
Summer 1,25mm	2,5kg	524110
	500g	524120
Universal 2,00mm	2,5kg	524102
	500g	524002

STARBITE

Anatomically prefabricated occlusion rims for the production of bite plates .

- › Three different degrees of hardness with excellent bite recording properties
- › Very high dimensional stability and very easy to carve

VERSION	PACK.	REF
hard - red	100 pieces	524220
medium - pink	100 pieces	524210
soft - light pink	100 pieces	524200



S&S WAX BRUSH

For smoothing wax models and removing wax chips.



VERSION	REF
1 piece	591110

HANDY TORCH LABO

The blowtorch "Handy Torch Labo" is very easy to use. It can be operated hand-held or in standing position at the workstation.

- › Automatic piezo ignition
- › Flame regulation
- › Maximum temperature 1300 °C



VERSION	REF
1 piece	500100







# 07

## EMBEDDING

Investment materials, duplicating silicones and accessories for perfect results.

✦ S&S SPEEDVEST

✦ S&S LIQUID

✦ MODELCAST S (SPEED)

✦ MODELCAST S LIQUID

✦ DOUBLESTAR

✦ DEBUBBLIZER  
& WAX PATTERN CLEANER





S&S SPEEDVEST

Quick or conventionally heatable, phosphate-bonded precision investment for precious and non-precious alloys in crown and bridge techniques.

- › No system constraint, it can be embedded with and without ring
- › Fine-grained with excellent fitting properties for all indications, from inlays up to implant cases. For PM or NPM and pressable ceramic
- › Optimal flow behavior, due to low liquid consistency
- › Very smooth casting surfaces, fine detail reproduction
- › The "speed capability" ensures a high time saving without restriction on the fitting precision
- › Optimum edge hardness for graceful modelling

VERSION	PACK.	REF
160g with 750ml S&S Liquid	20 Bags	259300
160g without S&S Liquid	20 Bags	259310



MODELCAST S (SPEED)

Phosphate-bonded investment material for model casting, can be conventionally or fast heated. For gel and silicone duplication.

- › High edge strength
- › Excellent fit
- › Very smooth casting surface
- › Time savings and less energy consumption due to "speed capability"
- › Low operating temperature of 850 °C; therefore easier to divest, smoother surfaces, lighter oxide and additional energy savings

VERSION	PACK.	REF
400g without Modelcast S Liquid	50 Bags	259500

\* Speed capability only in conjunction with silicone duplication



DOUBLESTAR

Precision Duplicating A-silicone basis for the duplication of plaster models. Perfect handling, as extremely tear resistant and dimensionally stable, paired with perfect flowability. Extraordinary reproduction precision and high elasticity guarantee error-free duplicates.

- › Shore hardness of approx. 22
- › Curing time of approx. 15 min

VERSION	REF
Base 1000ml (1,2kg) + catalyst 1000ml (1,2kg)	800001



DEBUBBLIZER & WAX PAT. CLEANER

Surface tension releasing agent for impressions, duplicating silicones and all waxes for better flow and adhesion of the investment material or gypsum. Degreases and cleans the wax objects before investment, creating smooth and cavity-free surfaces within all processes.

VERSION	REF
100ml spray	230400
1000ml refill	230410



S&S LIQUID

Mixing liquid suitable for S&S Speedvest

VERSION	REF
750ml	259450



MODELCAST S LIQUID

Mixing liquid suitable for Modelcast S (Speed)

VERSION	REF
1000ml	259505
5000ml	259515





# 08

## POLISHING AND SURFACE PREPARATION

High-quality polishing pastes, proven occlusion spray, accessories for outstanding polishing results and easy finishing.

- ✦ O-SPRAY
- ✦ DIASTAR
- ✦ BLACK DIAMOND
- ✦ CROWN FORCEPS
- ✦ ACID TWEEZER
- ✦ HANDY TORCH LABO





✦ O-SPRAY

Occlusion spray for the marking of contact points, areas and impurities. In four easily recognisable colours for optimal contrasts

- › Uniform, fine spray pattern, economical
- › Precise dosage
- › Easy removal with water
- › Reduced dust behavior
- › Food ingredients

VERSION	REF
75ml white	230233
75ml blue	230234
75ml red	230235
75ml green	230236



✦ DIASTAR

All-in-One diamonded polishing paste for metals, ceramics, zirconia, composites, plastics and acrylics.

- › Very high diamond content
- › Hard paste consistency, thereby more efficient dosing
- › No splashing or smearing - clean and economical
- › Not suitable for intraoral use!

VERSION	REF
1 can 30g	271069



✦ BLACK DIAMOND

Diamond polishing paste for all dental alloys, including NPM and titanium.

- › Does not lubricate
- › Economical in use
- › Perfect polishing results

VERSION	REF
450g	271071



✦ CROWN FORCEPS

Made of flexible, highly heat-resistant, light carbon fiber. Excellent for fixing various works and materials. Auxiliary instrument when separating, finishing and polishing, without hot fingers. Especially perfect for cleaning and evaporation without loss of the workpiece.

VERSION	REF
1 pieces	230240



✦ ACID TWEEZER

Made of teflon-coated steel. The tweezers are used to prevent the metal contact when inserting or removing cast objects in acid / pickling solutions.

VERSION	REF
1 piece	230800



✦ HANDY TORCH LABO

The blowtorch "Handy Torch Labo" is very easy to use. It can be operated hand-held or in standing position at the workstation.

- › Automatic piezo ignition
- › Flame regulation
- › Maximum temperature 1300 °C

VERSION	REF
1 piece	500100

09

MATERIALS FOR THE CERAMIST

Premium brushes for the ceramist and accessories for ceramic firing.

- ✦ DENTAL BRUSH SCHEFTNER KOLINSKY
- ✦ CERAMIC BRUSH SCHEFTNER TORAY
- ✦ ISOKER FLUID / ISOKER SPRAY
- ✦ STARTRAY HONEYCOMB FIRING TRAYS
- ✦ CERAMIC HOLDING PINS SET
- ✦ HOLDING PIN SET
- ✦ PINSSTAR / PINSSTAR UNIVERSAL REVERSIBLE
- ✦ FIBRE TRAY







Dental brush 00

Dental brush 02

Dental brush 03 Opaque

Dental brush 04

Dental brush 06

Dental brush 08

Dental brush 10

Dental brush 12

Ceramic brush 08

Ceramic brush 06

Ceramic brush Opaque

Ceramic brush 04

Ceramic brush 02

Ceramic brush 01

✚ DENTAL BRUSH  
SCHEFTNER KOLINSKY

Dental brush of best and finest Kolinsky-Red-Marten quality.

- › Ergonomic shape in triangular form (roll secure)
- › Dense brush cover as a water reservoir
- › No. 6 to No. 12 with small metal balls in the shank, which form the wet tip when shaking out
- › Top value for money

VERSION	REF
1× Dental brush 00	200900
1× Dental brush 02	200952
1× Dental brush 03 Opaque Opaque brush with short strong natural hair tip for easier handling of the opaque	200953
1× Dental brush 04	200954
1× Dental brush 06 With integrated metal balls	200956
1× Dental brush 08 With integrated metal balls	200958
1× Dental brush 10 With integrated metal balls	200960
1× Dental brush 12 With integrated metal balls	200962
Dental brush Scheftner Kolinsky Set Consisting of: › Dental brush 00 › Dental brush 02 › Dental brush 03 Opaque › Dental brush 04 › Dental brush 06 integr. metal balls › Dental brush 08 integr. metal balls › Dental brush 10 integr. metal balls › Dental brush 12 integr. metal balls	200970

✚ CERAMIC BRUSH  
SCHEFTNER TORAY

Ceramic Brush with with high grade synthetic hairs without ball

- › Dense and conical tip ensures good storage capacity
- › Ergonomically shaped
- › Top price-performance ratio

VERSION	REF
1× Ceramic brush 01	200971
1× Ceramic brush 02	200972
1× Ceramic brush 04	200974
1× Ceramic brush 06	200976
1× Ceramic brush 08	200978
1× Ceramic brush Opaque	200984



SEPARATING AGENTS AND FIRING TRAYS

✚ ISOKER FLUID

Quick, clean and safe method of insulating plaster against ceramic masses.

- › CFC and silicon free
- › Concentrated, ready-for-use solution
- › Very high quality and productive

VERSION	REF
10ml brush-on bottle	230350



✚ ISOKER SPRAY

Separates clean and reliable plaster against all ceramic materials.

VERSION	REF
75ml	273051



✚ STARTRAY HONEYCOMB FIRING TRAYS

Ceramic, thermally neutral firing trays.

- › Provides many application possibilities dependent on form and size of the objects
- › Reduced heating and controlled cooling phase

VERSION	REF
1 piece ø 62mm	230274
1 piece ø 79mm	230277
1 piece 55mm x 55mm	230275



HOLDING PINS

CERAMIC HOLDING PINS SET

Aluminium oxide coated, for all-ceramic restorations.

- › Easy to customize
- › Free rotation and positioning
- › Heat resistant up to 1800°C



VERSION	REF
Set consisting of: <ul style="list-style-type: none"><li>› 3x one-sided oblique grinded (different sizes)</li><li>› 1x on both sides obliquely grinded</li><li>› 1x cylindrical</li></ul>	230222

HOLDING PIN SET

0.9mm sorted nickel-free pins, inert even in oxidising atmosphere



VERSION	REF
Consisting of: <ul style="list-style-type: none"><li>› 4 pieces 25mm height</li><li>› 5 pieces 14mm height, round arch 180°, area of application 3.2mm wide</li><li>› 2 pieces 8-14mm area of application, helix with a diameter of 8mm</li></ul>	230226



PINSSTAR

Holding pins for honeycomb firing trays made of a heat resistant special alloy.

VERSION	ø	REF
10 pieces	1,27mm	230228
10 pieces	1,00mm	230229

PINSSTAR UNIVERSAL REVERSIBLE

Holding pins for honeycomb firing trays made of a heat resistant special alloy. One side has a diameter of 1.27mm and the other side 1.00mm, so it is universally applicable.

VERSION	ø	REF
10 pieces	1,27mm + 1,00mm	230230



FIBRE TRAY

Free of asbestos, from biological components. Heat resistant up to 1150°C

VERSION	REF
5 pieces	230278

10

PROSTHETICS

Acrylic resin for dentures, individual tray material, silicones and waxes in prosthodontics.

- PLASTOPRESS LT

PLASTOPRESS JET

PROMINT

PLASTODON N

PLASTODUR

LC TRAYSTAR
- PUTTYSTAR 1:1

GLUESTAR

STARBITE

SET-UP WAX

ISOPLAST





PLASTOPRESS LT

Denture base acrylic resin, Cold-curing. Pourable resin based on methyl methacrylate, for all indications. PlastoPress LT is the universal cold-curing resin for dental technicians who want to cover all applications with a single acrylic resin.

- Indications:
- › Manufacture of total upper and lower jaw dentures
  - › Completion of model cast dentures
  - › Indirect relining
  - › Immediate dentures
  - › Additions and repairs
- Properties:
- › Average processing time
  - › Very good flowability
  - › Universal application
  - › Good mucosal tolerance due to low residual monomer content
  - › Absolute colour stability through a catalyst system free of tertiary amine
  - › Cadmium free
  - › Tested and certified biocompatibility

VERSION		REF
Powder	500g colourless	801000
	500g pink	801010
	1000g pink	801020
	1000g pink-opaque	801030
Liquid	250ml	801015
	500ml	801025



PLASTOPRESS JET

Denture base acrylic resin, Cold-curing. Pourable resin based on methyl methacrylate, especially for the injection technique. PlastoPress JET is the acrylic material for "high-quality" prostheses that are being made by using the injection molding technique. The universal material can be used in addition to the injection molding technique also in the fluid resin technique.

- Indications for the injection technique:
- › Manufacture of total upper and lower dentures
- Indications for the fluid resin technique:
- › Completion of model cast prostheses
  - › Immediate dentures
  - › Margin design
  - › Indirect relinings
  - › Additions and repairs
- Properties:
- › Very good flow
  - › Universal application
  - › High accuracy
  - › Compastible to any injection system
  - › Tested and certified biocompatibility

VERSION		REF
Powder	500g pink	801110
	1000g pink	801120
Liquid	250ml	801115
	500ml	801125

PROMINT

Prosthesis finish and prosthesis care spray. It is used, among other indications, to remove monomer residues on prosthetic restorations. and also as practical freshness for splints, mouth guards, dental prostheses, braces and snoring splints. It evaluates all work and gives the object a pleasant fresh peppermint taste. Wholesome flavors give the patient/customer a comfortable wearing feeling right from the start.

- › Reduction of irritation and sensitization potential
- › Dermatologically tested
- › High gloss effect on denture surfaces
- › Reinforcement of initial adhesion in dentures

VERSION	REF
75ml Spray	220300



PLASTODON N

Denture base acrylic resin, Hot-curing. Universal denture base resin based on methyl methacrylate, for the controlled hot polymerization. PlastoDon N is an economical, cadmium-free prothesis resin, in premium quality, which is suitable for all common hot-polymerisation works. The continuously developed formula ensures reliable results at all times.

- Indications:
- › Production of total upper and lower jaw prostheses using the press / stuffing method
- Properties:
- › Simplest processing
  - › Precision fit and guaranteed high-quality results
  - › Excellent mechanical properties
  - › Good price-performance ratio
  - › Optimal mucosal tolerance due to low residual monomer content
  - › Physiological colours and absolute colour stability
  - › Cadmium free
  - › Tested and certified biocompatibility

VERSION		REF
Powder	500g pink	801210
	1000g pink	801220
	1000g colourless	801230
	1000g pink-veined	801240
Liquid	250ml	801215
	500ml	801225
	1000ml	801235



PLASTODUR

Denture repair acrylic resin, Cold-curing. PlastoDur is the most affordable acrylic resin for quick repair. Whether a full denture is broken or a saddle on a partial denture has been damaged, with PlastoDur you perform the work in minutes.

- Indications:
- › Repair of full and partial dentures
  - › Repair of orthodontic appliances
  - › Indirect relinings
  - › Additions
- Properties:
- › Very good flowability
  - › Excellent processing characteristics
  - › Very high bonding with any other acrylic resin
  - › Colour stable due to UV- and heat stabilizers
  - › Fast and safe curing
  - › Tested and certified biocompatibility

VERSION		REF
Powder	500g pink	801310
	1000g pink	801320
Liquid	250ml	801315
	500ml	801325

LC TRAYSTAR

Light-curing tray material for production of individual trays. Easy handling makes precise and material-saving work possible.

- › Free of quartz powder
- › Economical due to reusable surplus
- › Patient-friendly aroma
- › Polymerisation all standard laboratory light devices
- › Optimized adhesive behavior

VERSION		REF
50 pieces	pink	800710
	colourless	800720







✦ PUTTYSTAR 1:1

Addition curing silicone putty 1:1 (A + B) for the dental laboratory.

- › Exact detail reproduction
- › Smooth kneading behavior
- › Does not smear and does not stick to hands
- › Stable in shape and volume
- › Temperature resistant up to 200 °C
- › Optimum final hardness of approx. 86 Shore A
- › Versatile: for wax rims, bite registrations as well as for models for denture repairs
- › Saves the isolation of plaster against dentures acrylic resins
- › Colour: blue (base), white (catalyst)
- › Mixing ratio: 1: 1
- › Very economical compared to other silicone putties: PuttyStar has a larger volume at the same weight due to a reduced filler content than most competitor silicone putties!

VERSION	REF
1x can 500ml (800g) base + 1x can 500ml (800g) catalyst	800003
1x 3200ml (5120g) base + 1x 3200ml (5120g) catalyst + 2 measuring scoops	800004



✦ GLUESTAR (ADHESIVE WAX)

Special wax with extremely strong adhesive properties. Suitable for fixation of breakage repairs, teeth, wax rims and soldering of metal parts. Distortion is impossible due to the high hardness. can be easily removed e.g. by using a steam jet.

VERSION	REF
70g red	521455

✦ STARBITE

Anatomically prefabricated occlusion rims for the production of bite plates.

- › Three different degrees of hardness with excellent bite recording properties
- › Very high dimensional stability and very easy to carve

VERSION	PACK.	REF
hard - red	100 pieces	524220
medium - pink	100 pieces	524210
soft - light pink	100 pieces	524200



✦ SET-UP WAX

Set-Up Wax meets all the requirements of the demanding dental technician places on wax plates. It has a high plasticity, can be modeled well and will not reset when deformed. For different ambient temperatures, there are three different qualities available.



VERSION	PACK.	REF
Winter : 1,25mm x 175mm x 80mm	2,5kg 500g	524010 524020
Summer 1,25mm x 175mm x 80mm	2,5kg 500g	524110 524120
Universal 2,00mm x 175mm x 80mm	2,5kg 500g	524102 524002



✦ ISOPLAST

Alginate insulation for plaster models in acrylic prosthetics.

- › Free of formaldehyde
- › Excellent insulation
- › High accuracy

VERSION	REF
1000ml	230345





## SUPPLIES AND CONSUMABLES FOR LABS AND CLINICS

Fast disinfectant products as well as products for everyday care in the clinic and in the laboratory.

- ✦ MEDICLEAN DAVIDO
- ✦ BAKTERIOSOL DAVIDO
- ✦ QUICKDES DAVIDO
- ✦ PROMINT
- ✦ POLIDES
- ✦ UNIVERSAL OIL SPRAY
- ✦ JEL-SOL







MediClean Davido

Gentle cleansing handwash gel with skin-friendly, gentle active substances. The simultaneous re-greasing function prevents drying of the skin even with frequent cleaning.

- Ingredients: Aqua, Sodium Laureth Sulfate, Cocoamidopropyl Betaine, Sodium Lauroyl Glutamate, Cocamide Dea, Sodium Chloride, Parfum, Methylisothiazolinone, Benzyl Alcohol, Benzylalicylat, CI 61585

VERSION	REF
500ml dispenser bottle	670100
5000ml can	670150



QuickDes Davido

Ready-to-use rapid disinfection of non-invasive medical devices in the medical and dental field.

- Range of action:
- Bactericidal (incl. MRSA) pursuant to VAH/DGHM1, EN 1040 and EN 1276
  - Yeasticidal (Candida Albicans) pursuant to VAH/DGHM, EN 1275 and EN 1650
  - Tuberculocidal pursuant to VAH/DGHM, EN 14348
  - Covered viruses e.g. HBV, HCV, HIV
  - Adenoviruses

Composition:

- 100g contains: 43.0g Ethanol, 8.0g 1-Propanol, 0.04g Didecyldimethylammonium chloride

VERSION	REF
1000ml spray bottle	630100DA
5000ml can	630500DA



BakterioSol Davido

Antimicrobial gel for cleansing and care of hands. Suitable for hand cleaning without water. The simultaneous re-greasing function prevents drying of the skin even with frequent cleaning. Tested for antimicrobial efficacy and dermatological tolerability

- Ingredients: Aqua, Alcohol Denat., Isopropyl alcohol, Peg-40 Hydrognated Castor Oil, Acrylates C10-C30 Alkyl Acrylate Cross-polymer, Triethanolamine, Parfume, C.I. 61585

VERSION	REF
500ml gel dispenser bottle	670200
5000ml gel can	670250



PROMINT

Prosthesis finish and prosthesis care spray. It is used, among other indications, to remove monomer residues on prosthetic restorations and also as practical freshness for splints, mouth guards, dental prostheses, braces and snoring splints. It evaluates all work and gives the object a pleasant fresh peppermint taste. Wholesome flavors give the patient/customer a comfortable wearing feeling right from the start.

- Reduction of irritation and sensitization potential
- Dermatologically tested
- High gloss effect on denture surfaces
- Reinforcement of initial adhesion in dentures

VERSION	REF
75ml spray	220300

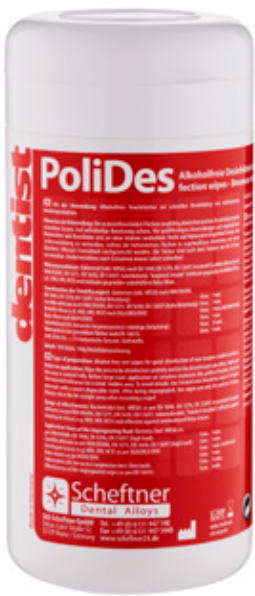
POLIDES

Ready-to-use alcohol-free and aldehyde-free disinfection wipes for rapid disinfection of alcohol sensitive materials and surfaces (for example: acrylic glass), inventory and treatment units. Also suitable for rapid disinfection of non-invasive medical devices.

- Fast-acting (after approx. 60 seconds)
- Good wetting and cleaning
- Very good material compatibility (materials such as leather, please check for compatibility beforehand!)
- Pleasant, fresh citrus fragrance
- Easy and safe removal of separated cloths from reclosable packaging
- Scientifically researched and tested
- Size of individual towels: 20x13cm

- Range of action:
- Bactericidal (incl. MRSA) pursuant to VAH/DGHM1, EN 1040, EN 1276, EN 13697
  - Yeasticidal (Candida Albicans) pursuant to VAH/DGHM, EN 1275, EN 1650, EN 13697
  - Covered viruses e.g. HBV, HCV, HIV pursuant to BGA(RKI)/DVG
  - Rotaviruses pursuant to BGW/DVG
  - Composition: 100g contains 0.72g quaternary ammonium salts

VERSION	REF
Can with 100 disinfection towels	635000
Refill pack with 100 disinfection towels	635100



UNIVERSAL OIL SPRAY

High-quality oil spray for all common handpieces, heads, turbines and air motors. This product cleans, lubricates and maintains in one step. A daily application extends the instrument life.

- Excellent lubrication and very high-cleaning effect
- Sterilization resistant
- Compatible with disinfectants
- High material compatibility
- Optional with 4 interchangeable adapters available
- Composition: Non-curing medical mineral oils; Additives

VERSION	REF
500ml Spray	230100
Adaptor IM INTRAmatic-Adaptor for handpieces and contra-angles	230110
Adaptor RQ Adaptor made of high quality metal for Roto Quick interfaces on turbines (Sirona and W&H)	230120
Adaptor MF Adaptor made of high quality metal for interfaces on turbines (KaVo)	230130
Adaptor Universal Adaptor made of plastic for handpieces with ISO-interfaces	230140



JEL-SOL

Solvent for cements and zinc oxide-eugenol pastes. It allows the cleaning of dentures, instruments, acrylic resin prostheses, impression trays, etc.

VERSION	REF
1000ml	230200





**S & S Scheftner** stands for openness to new technologies – and at the same time – a commitment to traditional dental technology.

Modern dental technology is a symbiosis of traditional craftsmanship, accurate handwork, know-how and state-of-the-art technologies and materials.

High-quality dental materials are our promise to our customers. With our products, we ensure excellent functionality and individuality. The use of tested materials and latest technologies is a matter of course for us. S & S Scheftner offers you a comprehensive range of high-quality, dental products, for all indications, "Made in Germany".

The in-house manufacturing and processing on our modern production equipment with high degree of automation enable us to produce products of the highest quality, excellent precision and accuracy.

It is thus possible for us to adapt to the constant changes and to develop and manufacture products from traditional dental technology to materials for digital manufacturing technologies. We have become a part of this digital world in the past few years and we are now shaping it.

Be with us also a part of this digital world.





## GENERAL TERMS AND CONDITIONS OF S&amp;S SCHEFTNER GMBH AS OF 2017/01

## 1. SCOPE

- 1.1. All business dealings including our online shop shall be governed by the following General Terms and Conditions exclusively; as far as they do not contain any provisions, the statutory rules shall apply; Customer's terms to the contrary to or deviating from our terms and conditions to our detriment shall be valid only if expressly confirmed by us in writing. S&S Scheftner GmbH General Terms and Conditions shall also apply if we are aware of Customer's terms to the contrary to or deviating from our terms to our detriment but unconditionally effect delivery to the Customer.
- 1.2. Our terms and conditions shall also apply for future business with the Customer.
- 1.3. Our General Terms and Conditions shall only apply with respect to traders, juristic persons under public law or public utility funds as defined by para. 310 cl. 1 BGB (German Civil Code).
- 1.4. Our General Terms and Conditions are available on our homepage [www.scheftner.dental](http://www.scheftner.dental), on our website and also within the webshop. They could be also requested by customers directly from the head-quarter.

## 2. OFFERS AND CONTRACT CONCLUSION

- 2.1. Our offers are non-binding. The presentation of products in the online shop is not a legally binding offer, but merely an invitation to order.
- 2.2. We reserve the right to amend the goods in the following manner even after conclusion of contract, if this is acceptable for the Customer: product changes relating to permanent product advancement and product improvement;
- minor and insignificant variations relating to color, form, design, measures, weights or quantities;
  - deviations customary in the trade.
- 2.3. If, during contract conclusion, errors occur which are not due to our fault, e.g. due to errors in communication, misunderstandings etc, no claims for damages pursuant to Article 122 BGB (German Civil Code) may be asserted against us.
- 2.4. By completing the ordering process via our webshop, the customer makes a binding order for the products listed in the shopping basket. See also detailed under 2.5. / 2.6. / 2.7. We can accept this binding offer within 2 weeks from receipt of the order, by sending an express order confirmation in text form (by fax, e-mail or letter mail) or by delivery of the ordered goods. Only with the receipt of this acceptance by the customer is the contract concluded. After expiry of the two-week acceptance period, the customer can withdraw his offer, as long as acceptance has not taken place in the meantime. The withdrawal of the offer has also to be in writing.
- 2.5. Ordering process webshop: An item found in the webshop can be placed into the shopping basket without obligation. You can view, correct and / or delete the content of the shopping cart at any time via the corresponding link. If you want to buy the products in the shopping cart, click the "Checkout" button; This is how you enter the ordering process. Please enter your data. After entering your data and choosing the payment method, you will be taken to the order page, where you can review your information and your goods orders again. Click on the "Order for payment" button to close the order process. The operation can be canceled at any time by closing the browser window. See the individual pages for more information.
- 2.6. By clicking the "Order for payment" button, you make a binding purchase offer (145 BGB German Civil Code).
- 2.7. Upon receipt of the purchase offer you will receive an automatically generated e-mail with which we confirm that we have received your order (confirmation of receipt). This acknowledgment of receipt does not constitute acceptance of your purchase offer. A contract is not yet concluded by the confirmation of receipt.
- A purchase agreement is only concluded if we explicitly declare acceptance of the purchase offer or if we deliver the goods to you without prior express declaration of acceptance.

- 2.8. Any payments already made by Customer shall be paid back immediately. We shall submit to Customer the Contract for congruent coverage immediately and assign to him any and all of our rights resulting therefrom, as far as necessary.

- 2.9. We do not grant any guarantee, especially no guarantee with regard to the quality of the products nor their procurement, without explicit agreement to do so.

## 3. PRICES AND PAYMENT

- 3.1. We reserve the right to reasonably change our prices, if cost reductions or increases occur after the conclusion of this Contract, which are beyond our responsibility, especially due to changes of raw material prices or due to mandatory increases of wages of our staff, e.g. after mandatory trade union wage agreements.
- 3.2. Prices only apply for the respective order. Repeat orders are deemed to be new orders.
- 3.3. Unless otherwise agreed upon, our prices are ex works and do not include postage, freight, packaging, insurance and other ancillary costs. In addition to this, the legally prescribed VAT shall be charged.
- 3.4. General payment term is Prepayment.
- 3.4.1. In case of agreed longer payment terms: If payment is not effected within 10 days after the due date of payment and receipt of our invoice, Customer shall be deemed to be in delay in payment under the statutory rules of Delay in Payment of the German Civil Code without any further notices from us. Payment shall only be deemed to have been received, if and when we are definitely in a position to dispose of the full amount. Otherwise the statutory provisions on delay in payment shall apply.
- 3.5. The Customer may set off only such claims as are undisputed or unappealable. Moreover, if and as far as we are liable for a breach of contract pursuant to § 276 BGB (German Civil Code) Customer shall be entitled to a right of retention or of plea of non-performance.

## 4. DELIVERY / OBSTACLES TO DELIVERY / DELAY IN DELIVERY / IMPOSSIBILITY

- 4.1. Delivery dates indicated by us are not binding unless expressly stipulated to be binding.
- 4.2. Delivery dates shall only be complied with on condition that the Customer observes in due time all and any of his obligations to co-operate, especially with respect to the receipt of documentation and information to be supplied by the Customer, clarification of all technical details with Customer
- the receipt of down payments which may have been agreed upon, if applicable,
  - and the submission of administrative permits and import licences to be made available
- We reserve the right to plead non-performance of the contract.
- 4.3. Delivery dates shall be deemed to have been observed when the goods are delivered *lex works* within the stipulated term or if, in case picking up by Customer is agreed upon, our readiness to dispatch the goods has been notified to the Customer within such term.
- 4.4. Obstacles to our Performance beyond our responsibility:

- 4.4.1. Delays in Deliver or Performance due to the following causes shall not be within our responsibility unless we exceptionally assumed the risk or granted a guarantee specifically with regard to the date of delivery / performance or any other delay- the same shall apply if such circumstances occur at our suppliers or their sub-suppliers: circumstances of *force majeure* as well as any other obstacles which occur after conclusion of the Contract and we learn only after the conclusion of the Contract for no fault attributable to us, and with regard to which we prove that they could not have been foreseen and avoided by us even with the application of the utmost, reasonable care, and that we have no obligation to bear the risk of the occurrence of such obstacles or to actively or passively avoid them. Provided that the above conditions are fulfilled *no* occurrence or faultless learning of such circumstances only after conclusion of the Contract, unforeseen and unavoidable occurrence to be proven by us - the above exclusion of responsibility especially, but without limitation includes: legitimate measures of labour struggle (strikes and legal lock-outs); operating trouble and breakdowns; shortage or lack of raw material; shortage or lack of manufacturing supplies; lack of personnel.
- 4.4.2. In the event of delays in delivery or performance under no. 5.4.1 above, any claims for damage of the Customer are excluded.
- 4.4.3. In the event of a definitive obstacle to delivery or performance within the meaning of no. 4.4.1. above, either party is entitled to immediately rescind the Contract.
- 4.4.4. In the event of a temporary obstacle to delivery or performance within the meaning of no. 4.4.1., we shall be entitled to postpone delivery/ performance for as long as the disturbance may last, plus a reasonable start-up time. If, in this respect, we can prove an intolerable impediment to delivery / performance within the meaning of Article 275 clause 2 and 3 BGB (German Civil Code), we shall have the right to rescind this Contract. Customer, however, in such circumstances shall have the right to rescission only under the conditions set out in no. 4.6. below. Article 323 clause 4 BGB (German Civil Code) analogously applies to our right to rescind the Contract. With regard to the Customer's right to rescind the Contract, Article 323 clauses 4 to 6 BGB (German Civil Code) apply. As for the legal consequences of a valid rescission, Article 326 BGB including its referrals apply analogously; Customer may, in accordance with Articles 346-348 BGB (German Civil Code), request annulation of performances he may already have made before their being due.

## 5. DELAYS IN PERFORMANCE WITHIN OUR RESPONSIBILITY:

- We shall be liable for delay in performance within our responsibility in accordance with the applicable statutory provisions but, however, subject to the following limitation:
- 5.1. Liability for damage due to delay in performance subject to Articles 280 clause 2 and 286 BGB (German Civil Code)
- Unless there is intentional acting or gross negligence attributable to us, our agents or our representatives, damage for delay in performance shall be limited to the lump sum of 0.5 % of the net invoice amount of the service/ delivery at stake for each full week of delay, but in no event more than 5 % of such amount altogether. In case of gross negligence attributable to us, our agents or our representatives, our liability for damage for delay in performance shall be limited to the foreseeable damage specific for the type of Contract.
- 5.2. Liability for damage instead of performance subject to Article 281 BGB (German Civil Code) is limited to the foreseeable damage specific for the type of Contract, unless our delay in performance is caused by an intentional or grossly negligent breach of Contract by us, our legal representatives or agents.
- 5.3. The above limitations of liability shall not apply
- as far as the Customer contractually has declared that his continuing interest in our performance is linked to and depending on timely delivery / performance by us (transaction where time is of the essence *ñ* if *ixgcsch%soft*) and / or,
  - if we exceptionally have assumed the risk of timely delivery or granted a guarantee specifically with regard to the date of delivery / performance in case of damage to life, body or health of a person.
- 5.4. If we prove that the delay is beyond our contractual responsibility, the Customer shall be entitled to rescind the Contract only
- if the Customer contractually has declared that his continuing interest in our performance is linked to and depending on timely delivery / performance by us (transaction where time is of the essence *ñ* if *ixgcsch%soft*) or
  - if the Customer proves that, as a consequence of the delay, his interest in our performance of the Contract has ceased to exist or that the maintenance of the contractual relationship cannot reasonably be expected from him. Otherwise, Article 323 clauses 4 to 6 BGB (German Civil Code) apply. As for the legal consequences of the rescission the statutory provisions (Articles 346 et seq. BGB *ñ* German Civil Code) apply.

- 5.5. In case of impossibility of our performance, our liability for damage and costs shall be limited as follows: Unless there is an intentional or grossly negligent breach of Contract attributable to us, our agents or representatives, our liability for damage and costs shall be limited to 20 % of the net invoice amount of our performance; in case of a grossly negligent breach of Contract, our liability shall be limited to the foreseeable damage specific for the type of Contract. This limitation shall not apply, if we exceptionally have assumed the risk of procurement of the product or in case of damage to life, body or health of a person. The Customer's statutory right to rescind the Contract in case of impossibility of our performance remains unaffected.

## 6. PASSING OF RISK / INSURANCE

- 6.1. Unless otherwise agreed upon, delivery shall be *ex works* unpacked. In case of any packing done by us, packaging for shipment as well as all and any other packaging shall not be taken back by us under the Packing Regulations, excluding pallets. The Customer undertakes to dispose of the packaging at his own expense.
- 6.2. We are entitled to effect partial deliveries, as far as Customer can reasonably be expected to accept them.
- 6.3. The risk of an accidental loss or of an accidental deterioration shall pass to the Customer as soon as the goods have been delivered to the person or institution designed to pick up or execute the delivery, no later, however, than when the goods leave our company. The same shall apply for deliveries effected by our own vehicles or if freight or carriage paid and packing included has been agreed upon.
- 6.4. At the request and expense of the Customer we shall insure the goods against breakage, fire and water damage, damages in transit as well as against other insurable risks. If we agree to contract transportation or insurance, we are liable only as far as our contractual partners are liable to us.

## 7. DEFAULT IN TAKING DELIVERY, DELAY IN ACCEPTANCE OR DELAY IN THE REQUEST FOR DELIVERY OF THE CUSTOMER

- 7.1. In case of delay in taking delivery by Customer or in case of delay in delivery for reasons attributable to the Customer, the risk of an accidental loss or of an accidental deterioration of the goods shall pass to the Customer at the moment the same is in delay or when the picking up or the delivery could have taken place if the conduct of the Customer had been in accordance with his duty.
- 7.2. If the Customer is in default in taking delivery of the goods or in case of faulty breach of other duties to co-operate, we shall have the right - without prejudice to further statutory claims - to claim for damage incurred by us including additional costs.

## 8. RETENTION OF OWNERSHIP

- 8.1. We retain ownership to all goods delivered by us until we receive full payment of all sums owed to us - herein included future payments - originating in the business relation with the Customer. The retained ownership shall be deemed collateral for the total account payable to us (current account retention) until all current liabilities have been discharged. All goods subject to retention of ownership shall hereinafter be referred to as *reserved* or *privileged goods*.
- 8.2. The Customer shall have the right to resell the reserved products in the ordinary course of business; however, as early as today Customer shall assign to us all claims that he may have against his Customers or against third parties on account of the resale to the amount of the invoice total (including VAT) of our claims. If the Customer includes the claims from a resale of the reserved products in a current account business relation existing with his Customer, this current account claim shall be assigned to us to the amount of the acknowledged balance; the same shall apply for the *icausal* balance if the Customer becomes insolvent.

The Customer shall still have the right to collect the assigned claims after they have been assigned.

Subject to the rules and regulations under the insolvency law, our right to collect claims ourselves shall remain unaffected; however, we undertake not to collect claims as long as the Customer does not breach his contractual obligations, especially observes his obligation of payment, is not in delay in payment nor has filed for the opening of an insolvency procedure or generally has ceased payments.

Under the right of resale, the Customer shall not be entitled to pledge or in any way charge by way of security any of the products.

- 8.3. If our undertaking not to collect claims under no. 8.2 above ceases to exist, we shall have the right - subject to the rules and regulations under the insolvency law - to withdraw the right of resale and to require the Customer to assign to us the right to recovery he may have against third parties, or to take back the reserved products after expiry of a reasonable delay set by us; the Customer shall be bound to surrender the products; no right of retention may be asserted by the Customer against this right to recovery. Taking back the reserved products constitutes a rescission of the Contract. After having threatened to do so and after setting a deadline, reserved products which have been taken back by us for before mentioned reasons may - subject to the rules and regulations under the insolvency law - be reasonably resold and/ or used by us; the proceeds thereof shall be credited against the liabilities of the Customer - less reasonable exploitation costs. Under the conditions stated entitling us to revoke the Customer's right of resale, we may also revoke the collection authorization and may require the Customer to disclose to him the claims assigned as well as the debtors of such claims; furthermore, we may require the Customer to disclose to us all information necessary for collection, to submit the relevant documentation and to notify the debtors (third parties) of the assignment.
- 8.4. In case of damage or loss of the reserved products as well as in case of a change of domicile or of property, the Customer shall immediately notify us hereof in writing; the same applies for pledges or other interventions of third parties so that we are in a position to bring an action under Article 771 ZPO (German Code of Civil Procedure). If the third party is in no position to reimburse the judicial and extra-judicial costs incurred by us under Article 771 ZPO, the Customer shall be liable for the loss incurred us. If the release of the reserved products is achieved without legal proceedings, costs hereby incurred may also be charged to the Customer, here in included costs of regaining pledged reserved products.

- 8.5. Any processing or transformation of the products purchased by the Customer shall always be deemed to be on our behalf. If the reserved products are processed with other goods, which are the property of any person other than us, the product thereof shall be deemed to be owned in common with that other person, our share in the common property depending on the ratio of the total amount charged by us for the reserved products plus VAT.

Furthermore, the provisions applicable for the reserved products shall also apply for the product of such processing or transformation.

With respect to the product of such processing or transformation, the Customer shall acquire expectant rights corresponding to the expectant rights to the reserved products.

- 8.6. If the reserved products are inseparably mixed or combined with other goods which are the property of any person other than us, the product thereof shall be deemed to be owned in common with that other person, our share in the common property depending on the ratio of the total amount charged by us for the reserved products plus VAT. If the mixing or combination of the products has been done in such a way that the product of the Customer is to be considered to be the main product it is agreed that the Customer assigns to us co-ownership of such product on a *pro rata* basis. The Customer shall keep such property owned either exclusively by us or owned in common with another person properly stored for us.

- 8.7. If our reserved products are resold after having been processed or transformed in any way, as early as today, the Customer shall assign to us as security his claims resulting from the resale of such products up to the invoice total (including VAT) of our claims.

If, on account of the processing or transformation of or of the mixing or combination of the reserved products with other goods which are the property of any person other than us, we have only acquired co-ownership pursuant to the above clauses 8.5 or 8.6, the claim to the purchase price of the Customer shall only be assigned to us in advance depending on the ratio of the total amount charged by us for the reserved products plus VAT.

Furthermore, provisions as laid down in clauses 8.2. - 8.4. above shall apply correspondingly for claims assigned to us in advance.

- 8.8. If under the laws of a foreign country within the borders of which the reserved products are located, a reservation of ownership or an assignment is not legally effective, the security provision corresponding to reservation of ownership or assignment in this legal sphere shall be deemed to have been stipulated.

If co-operation of the Customer is required in order to create such rights, the Customer shall be bound at our request to take all measures necessary in order to constitute and maintain such rights.

- 8.9. The Customer shall treat the reserved products properly and keep them in good repair; in particular, the Customer shall at his expense sufficiently insure the reserved products against theft, robbery, burglary, fire and water damage. As early as today, the Customer shall assign to us all rights resulting from such insurance and relating to the reserved products. We accept such assignment.

Furthermore, we reserve all rights to assert his claims for performance or claims for damages.

- 8.10. Upon request of the Customer, we undertake to release the securities we are entitled to as far as the recoverable value of such securities exceeds the value of our claims to be secured by more than 10 %. We shall have the right to select the securities to be released at his own discretion.

## 9. ASSIGNMENT

Customer shall assign claims against us in connection with our performances only with our prior written consent.

## 10. DESCRIPTION OF QUALITY, WARRANTY

- 10.1. The specifications contained in our description of product and performances exhaustively and ultimately define the quality of our products and performances. The specifications constitute an agreement on the quality, subject to warranty, but not a guarantee of specific characteristics. None of the declarations made by us in connection with this Contract constitute a guarantee with the effect of an increase of liability or the assumption of a special obligation of essence. Only explicit declarations to this effect made in writing may constitute a guarantee within the meaning of the Germany Civil Code.
- 10.2. Customer shall not have any warranty claims in case of only insubstantial deviations from the quality agreed upon or in case of only insubstantial impediments to the use of the Product or performance.
- 10.3. The Customer may only assert warranty claims if he has duly observed his statutory duties (§ 377 HGB *ñ* German Commercial Code) to examine and to give notice of defects in time.

We shall then notify the Customer whether the goods which are subject to a complaint shall be returned to us or whether the Customer shall wait until the goods are either picked up by us at his site or are inspected by us on site.

- 10.4. In case of a defect of the Product, we are entitled to correct the performance, at our option, either by remedy of the defect or delivery of a substitute Product without defects. If one of these two means of correction of the performance is impossible or unreasonable, we are entitled to refuse such correction.

We may also refuse correction of the performance, as long as the Customer fails to fulfil his payment obligations for the non-defective part of our performance.

In case of remedy of the defect by us, we are obliged to bear all necessary expenses, especially costs for transportation of man and material, working and material costs, unless they are increased due to the fact that the defective Product was transported to a location other than the place of performance without such transport being within the scope of the normal use of the Product.

- 10.5. In case of impossibility or failure of the correction of performance, faulty or unacceptable delay of the correction or final and serious refusal to correct on our part or in case that correction cannot reasonably be expected to be tolerated by the Customer, Customer shall have the option to either reduce the purchase price (Price Reduction) or to rescind the Contract (Rescission).

- 10.6. Unless otherwise provided for in no. 10.7. and 10.8. below, any other claims of Customer in connection with defects of our

Products or performances, no matter on what legal grounds (especially claims for damage due to breach of obligations, claims of tort for damage to things as well as claims for compensation of costs) shall be excluded; this especially applies to claims for damage to other things than the Products as well as to claims for loss of profit.

- 10.7. The limitation/ exclusion of liability contained in no. 10.6. above does not apply:

- 10.7.1. in case of damage to life, body or health of a person resulting from a faulty breach of obligation by us, our legal representatives or agents;

- 10.7.2. in case of mandatory liability in accordance with the *IProdukthaftungs-gesetz* (Product Liability Code);

- 10.7.3. in case of faulty breach of a fundamental contractual obligation (duty the fulfillment of which makes the due performance of the Contract possible in the first place on the observance of which the Customer may regularly trust) on our side or by our legal representatives or agents; unless the breach is due to purpose or gross negligence, the liability for damage is limited to the foreseeable damage typical for the type of Contract;

- 10.7.4. in case of fraudulent non-disclosure of a defect known to us, and in case of a guarantee within the meaning of the BGB (German Civil Code) with respect to the quality of the Product if a defect within this guarantee gives rise to our liability;

- 10.7.5. in case the Customer has a claim for damage instead of the performance which we, our legal representatives or agents are responsible for;

- 10.7.6. in case of other damage resulting from a breach of Contract due to our purpose or gross negligence or of our legal representatives or agents; unless the breach is made on purpose, the liability for damage is limited to the foreseeable damage typical for the type of Contract.

- 10.8. As for the compensation of costs no. 10.7. applies accordingly.

- 10.9. Nos. 10, in particular, nos. 10.6. and 10.8. above do not affect the statutory provisions with regard to the burden of proof.

- 10.10. Customer's recourse against us according to Article 478 BGB (recourse of the Entrepreneur) exists only insofar as the Customer has not entered into agreements with his Customer which exceed the statutory warranty claims. This is without prejudice to other rules on the Recourse of the Entrepreneur.

## 11. LIABILITY FOR ANCILLARY OBLIGATIONS

If, due to our fault or the fault of our legal representatives or agents, the Product cannot be used as contractually intended as a consequence of a lack of advice or information prior to or after the conclusion of this Contract or as a consequence of wrongful advice or information or other wrongful performance of ancillary obligations (especially instructions for use and maintenance of the Product) prior to or after the conclusion of this Contract, the provisions of no. 10.6. to 10.9. above apply, with the exclusion of any other claims of the Customer.

## 12. GENERAL LIABILITY / RESCISSION OF CONTRACT BY CUSTOMER

- 12.1. The following provisions apply to the Customer's claims other than claims in connection with defective products. However, these provisions shall not constitute a limitation or waiver of our statutory or contractual rights and claims.

- 12.2. Without prejudice to the provisions for delaying payment (no. 5.5.) and impossibility (no. 5.7.), the provisions of no. 10.6. and 10.7. above apply accordingly to our liability for damage. Any further liability for damage *ñ* no matter on what legal grounds - shall be excluded. This applies especially to claims for damage beside the performance and instead of the performance on the basis of breach of obligations, as well as claims under tort for compensation of damage to objects under Article 823 BGB (German Civil Code).

- 12.3. The limitation contained in no. 10.2. above does also apply if Customer claims compensation of costs incurred.

- 12.4. Any fault of our legal representatives and agents may be attributed to us.

- 12.5. The statutory rules on the burden of proof remain unaffected.

- 12.6. As far as our liability is excluded or limited, such exclusion or limitation does also apply to the personal liability of our staff, employees, legal representatives and agents.

- 12.7. If we breach an obligation of this Contract, Customer shall only be entitled to rescind this Contract, subject to the applicable statutory provisions, if fault for such breach is attributable to us. In the cases provided for in no. 10.5. above (failure of remedy etc.) and in cases of impossibility, however, the statutory provisions unlimitedly apply; as for a rescission of the Customer because of delay in delivery or performance, the provisions contained in no. 5.4.3., 5.4.4. and 5.6. above apply. Upon our request, Customer shall declare within a reasonable delay of time, whether he will rescind this Contract or insist on our performance under this Contract.

## 13. RIGHTS TO DEVELOPMENTS AND INVENTIONS

We reserve all rights and title to any valuable, new and confidential knowledge (know how) we dispose of or gain during the performance of any contracts made with us, as well as to inventions and any intellectual or industrial property rights that may exist insofar, unless otherwise agreed upon and as far as the Customer, according to the purpose of the respective contract, is not entitled to use the respective Products.

## 14. TERM OF PRESCRIPTION

- 14.1. The term of prescription for rights and claims based on defects of the Products or performances *ñ* no matter of which legal nature *ñ* shall be one year. This however shall not apply to the cases provided for in Articles 438 cl. 1 no.1, 438 cl. 1 no. 2, 479 cl. 1 and 634 a.) cl. 1 no. 2 BGB (German Civil Code); for these cases a term of prescription of three years shall apply.

- 14.2. The terms of prescription laid down in no. 14.1. above shall also apply to any and all claims for damage against us in connection with defects to the Products *ñ* no matter what may be the legal nature of such claims. As for any claims for damage against us which are not in connection with defects to the Products, the term of prescription provided for in no. 14.1. sentence 1 above apply.

- 14.3. The terms of prescription provided for in no. 14.1. and 14.2. above shall not apply:

- In case of breach of an obligation on purpose;
- In case of fraudulent non-disclosure of a defect known to us or in case of a guarantee with regard to the quality of the Product or performance; in case of fraudulent non-disclosure those statutory terms of prescription apply instead of the ones provided for in no. 14.1 above, which would apply in the absence of fraudulent non-disclosure with the exclusion of the prolongation of the term in case of fraudulent non-disclosure in accordance with Articles 438 cl. 3 respectively 634 a.) cl. 3 BGB (German Civil Code).
- To claims for damage in case of damage to life, body, health or freedom of a person;
- To claims under the *IProdukthaftungsgesetz* (Product Liability Code);
- In case of a grossly negligent breach of obligation or
- In case of breach of a fundamental contractual obligation.
- In these cases the statutory terms of prescription shall apply.

- 14.4. Unless otherwise expressly provided for herein, the statutory provision on the beginning of the term of prescription, the interruption of their running, their suspension and the re-start shall remain unaffected.

- 14.5. The claims for reduction of the purchase price and the right to rescind from the Contract are excluded, if the claim for correction of the performance is prescribed. In such case the Customer may however refuse payment of the purchase price as far as he would be entitled to do so on the basis of his right to reduce the purchase price or his right to rescind from the Contract.

## 15. THIRD PARTY'S RIGHTS

We do not warrant that the use, installation or resale of any of our Product does not infringe third parties' industrial property rights. However, we confirm that we have no knowledge of any such third parties' rights.

## 16. PLACE OF PERFORMANCE, PLACE OF JURISDICTION, APPLICABLE LAW, PURCHASE WITHIN THE EU, SAFEGUARDING

## Clause

- 16.1. Place of performance shall be our principal place of business exclusively, unless otherwise agreed upon.

- 16.2. If Customer is a merchant pursuant to the HGB (Commercial Code), juristic person under public law or public utility fund, place of jurisdiction for all liabilities resulting from the contractual relationship shall either be our principal place of business or, at our option, the location of the Customer. This agreement as to the place of jurisdiction shall also apply for Customers having their location in a foreign country.

- 16.3. For all rights and obligations resulting from the contractual relationship between us and the Customer German law, excluding UN Sales Convention (CIS convention on contracts for the international sale of goods of April 11, 1980), shall apply exclusively, without regard to German collision rules.

- 16.4. Should individual provisions of these General Terms and Condition for Purchase and Delivery or individual provisions of other agreements concluded with us be or become invalid, this shall not affect the validity of the other provisions or agreements.

- 16.5. Customers from EC countries - when buying goods for use within countries of the European Community - shall be bound to compensate for all and any damage which may be incurred by us due to:

- tax violations committed by the Customer himself or
- false information given by the Customer or information which has been withheld from us by the Customer relating to his financial situation relevant for taxation.

- 16.6. Contract language is generally German.

## 17. STORAGE OF DOCUMENTS, RETENTION PERIODS

Documents and files of customers and business partners that are printed and / or produced and stored on data media are kept for 15 years. After expiration of this retention period, printed documents will be destroyed and if requested also deleted from digital media.

A non-active customer or business partner is set to inactive in the merchandise management system. A cancellation is not automatic and must be requested in writing by S&S Scheftner, after the retention period of 15 years, by the business partner.









S&S Scheftner GmbH  
Dekan-Laist-Straße 52  
55129 Mainz / Germany

Tel.: +49 (0) 61 31-94 71 40  
Fax: +49 (0) 61 31 -94 71 440  
E-Mail: [info@scheftner.dental](mailto:info@scheftner.dental)  
online: [www.scheftner.dental](http://www.scheftner.dental)

**Quality Management /**  
**Quality Assurance:**  
EN ISO 13485:2012  
Annex II, Directive 93/42/EEC  
Annex V, Directive 93/42/EEC

**Opening Hours:**  
Monday to Friday  
from 08.00 a.m. to 05.00 p.m.

**Service-Contact:**  
Sales Back Office:  
[service@scheftner.dental](mailto:service@scheftner.dental)  
+49 (0) 6131 9471 416  
+49 (0) 6131 9471 417  
+49 (0) 6131 9471 413

Sales Management:  
[sales@scheftner.dental](mailto:sales@scheftner.dental)  
+49 (0) 6131 9471 418

Technical Support:  
[support@scheftner.dental](mailto:support@scheftner.dental)  
+49 (0) 6131 9471 417  
+49 (0) 177 215 97 88



Tel.: +36 1 299-0117 | [info@ivodent.hu](mailto:info@ivodent.hu) | [www.ivodent.hu](http://www.ivodent.hu)

