



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	510 - 600 MPa
Ultimate tensile strength	770 - 780 MPa
Elongation	>3 %
Elastic modulus	200 - 230 GPa
Vickers hardness	355 HV 10
Density	8.4 g/cm ³
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 according DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and 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
- › 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
1000 g	132100
250 g	132250



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	500 MPa
Ultimate tensile strength	760 MPa
Elongation	6 %
Elastic modulus	250 GPa
Vickers hardness	380 HV 10
Density	8.1 g/cm ³
Melting range	1200 - 1385 °C
Preheating temperature	850 - 950 °C
Casting temperature	1485 - 1540 °C
CTE (25 - 600 °C)	14.9 x 10 ⁻⁶ K ⁻¹
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

STARBOND CO

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

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 according DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and 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
1000 g	132000



TECHNICAL PROPERTIES:

Proof stress (Rp0.2)	662 MPa
Ultimate tensile strength	877 MPa
Elongation	>4 %
Elastic modulus	200 - 210 GPa
Vickers hardness	420 HV 10
Density	8.7 g/cm ³
Melting range	1320 - 1400 °C
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 challenging combined restorations.

- › Free of nickel, beryllium, cadmium and lead
- › Type 5 according DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and 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
1000 g	132200

DIASTAR

All-in-One diamond polished 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 Box 30 g	271069



Scheftner
Dental Alloys

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Scheftner
Dental Alloys

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.

Scheftner
Alloys

CoS



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	650 MPa
Ultimate tensile strength	910 MPa
Elongation	8 %
Elastic modulus	200 GPa
Vickers hardness	280-295 HV 10
Density	8.8 g/cm ³
Melting range	1305 - 1400 °C
Preheating temperature	850 - 950 °C
Casting temperature	1500 - 1550 °C
CTE (25 - 600 °C)	14.0 x 10 ⁻⁶ K ⁻¹
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 according to DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and 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
1000 g	133000
250 g	133250



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	610 MPa
Ultimate tensile strength	830 MPa
Elongation	10 %
Elastic modulus	190 GPa
Vickers hardness	285 HV 10
Density	8.7 g/cm ³
Melting range	1310 - 1410 °C
Preheating temperature	850 - 950 °C
Casting temperature	1480 - 1530 °C
CTE (25 - 600 °C)	14.4 x 10 ⁻⁶ K ⁻¹
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 according to DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and 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
1000 g	140000
250 g	140250

★ MOGUCERA C

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

- › Free of nickel, lead, beryllium and cadmium
- › Type 5 according to DIN EN ISO 22674
- › High degree of purity
- › Biocompatible and 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
1000 g	138000

★ 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
- › 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
1000 g	134000
250 g	134250



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	508 MPa
Ultimate tensile strength	795 MPa
Elongation	9 %
Elastic modulus	209 GPa
Vickers hardness	300 HV 10
Density	8.3 g/cm ³
Melting range	1370 - 1435 °C
Preheating temperature	850 - 950 °C
Casting temperature	1535 - 1590 °C
CTE (25 - 600 °C)	14.1 x 10 ⁻⁶ K ⁻¹
Laser weldable	Yes
Type (DIN EN ISO 22674)	5



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	580 MPa
Ultimate tensile strength	860 MPa
Elongation	11 %
Elastic modulus	195-205 GPa
Vickers hardness	315 HV 10
Density	8.1 g/cm ³
Melting range	1300 - 1370 °C
Preheating temperature	850 - 950 °C
Casting temperature	1470 - 1520 °C
CTE (25 - 600 °C)	15.9 x 10 ⁻⁶ K ⁻¹
Laser weldable	Yes
Type (DIN EN ISO 22674)	4



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	379 MPa
Ultimate tensile strength	664 MPa
Elongation	8 %
Elastic modulus	200 GPa
Vickers hardness	245 HV 10
Density	8.3 g/cm ³
Melting range	1290 - 1350 °C
Preheating temperature	850 - 950 °C
Casting temperature	1450 - 1500 °C
CTE (25 - 600 °C)	14.4 x 10 ⁻⁶ K ⁻¹
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
- › 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
1000 g	139000



TECHNICAL PROPERTIES:	
Proof stress (Rp0.2)	340 - 355 MPa
Ultimate tensile strength	490 - 510 MPa
Elongation	5 %
Elastic modulus	200 GPa
Vickers hardness	200 HV 10
Density	8.2 - 8.3 g/cm ³
Melting range	1310 - 1410 °C
Preheating temperature	850 - 950 °C
Casting temperature	1510 - 1560 °C
CTE (25 - 600 °C)	14.0 x 10 ⁻⁶ K ⁻¹
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
- › Flexibility in ceramic selection and safe veneering
- › 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
1000 g	131000