



MODELSTAR 5

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

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 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

QUANTITY	REF
1000g	132100
250g	132250



STARBOND CO

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

- Free of nickel, beryllium, lead and cadmium
- 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

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 ³
Melting range	1200 - 1385°C
Preheating temperature	850 - 950°C
Casting temperature	1485 - 1540°C
CTE (20-600°C)	14,9 x 10 ⁻⁶ K ⁻¹
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

QUANTITY	REF
1000g	132000



MOGUCAST EH

CoCr partial denture alloy for sophisticated combined restorations and delicate clamp constructions.

- Free of nickel, beryllium, lead and cadmium
- 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
- Pleasant polishing properties and easy finishing
- Optimal conditions for laser welding
- System-free working due to very good alloy properties

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 ³
Melting range	1320 - 1400°
Preheating temperature	850 - 950°C
Casting temperature	1500 - 1550°C
Laser weldable	Yes
Type (DIN EN ISO 22674)	5

QUANTITY	REF
1000g	132200

STARBOND LOT

Soldering rods for all Starbond alloys.

- Free of Ni, Be, Cd and Pb
- 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

STARSOLDER

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

- Free of Be, Cd and Pb
- 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, zirkonia, composites, plastics and acrylics.

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

QUANTITY	REF
30g	271069
5g	271065

STARWIRE

CoCr laser welding wire.

- Free of Be, Cd and Pb
- 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



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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.



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 ³
Melting range	1305 - 1400°C
Preheating temperature	850 - 950°C
Casting temperature	1500 - 1550°C
CTE (20-600°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 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 ³
Melting range	1310 - 1410°C
Preheating temperature	850 - 950°C
Casting temperature	1480 - 1530°C
CTE (20-600°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 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
- › 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
- › 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 ³
Melting range	1370 - 1435°C
Preheating temperature	850 - 950°C
Casting temperature	1535 - 1590°C
CTE (20-600°C)	14,1 x 10 ⁻⁶ K ⁻¹
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
- › 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 ³
Melting range	1300 - 1370°C
Preheating temperature	850 - 950°C
Casting temperature	1470 - 1520°C
CTE (20-600°C)	15,9 x 10 ⁻⁶ K ⁻¹
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 ³
Melting range	1290 - 1350°C
Preheating temperature	850 - 950°C
Casting temperature	1450 - 1500°C
CTE (20-600°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
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 ³
Melting range	1310 - 1410°C
Preheating temperature	850 - 950°C
Casting temperature	1510 - 1560°C
CTE (20-600°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
1000g	131000