

NPM-BONDING ALLOY

**TECHNINIS SAVYBES:**

Atsparumas stresui (Rp 0.2)	650MPa
Galutinis tvirtumas	910MPa
Pailgėjimas	8%
Tamprumo modulis	200GPa
Kietumas vikieriais	280 HV 10
Tankis	8.8 g/cm <sup>3</sup>
Lydimosi intervalas	1305 - 1400°C
Pašildymo temperatūra	850 - 950°C
Liejimo temperatūra	1500 - 1550°C
Išsiplėtimo koeficientas (20-600°C)	14,0 x 10 <sup>-6</sup> K <sup>-1</sup>
Ar lydomas lazeriu?	Taip
Tipas (DIN EN ISO 22674)	5

**STARBOND COS**

CoCrWMo metalas mažai besilėčiančiai keramikai.

- Be nikelio, švino, berilio ir kadmio
- Priskiriamas prie 5 tipo pagal DIN EN ISO 22674
- Didelis grūnumo laipsnis
- Biologiškai suderinamas ir labai atsparus korozijai
- Sudėtis:  
Co: 59% Cr: 2% W: 9.5% Mo: 3.5% Si: 1% C, Fe, Mn, N: <1%

**PRIVALUMAI DANTŲ TECHNIKAMS:**

- Platus indikacijų spektras
- Dėka labai gerų metalo savybių, darbo eiga nėra pririšta prie jokių sistemų
- Lengvai poliruojamas ir nesunkiai apdirbamas dėl nedidelio kietumo 280 HV10
- Išsiplėtimo koeficientas 14.0 suteikia lankstumo ir saugumo renkantis bei kepanant keramikos mases
- Nėra privalomo aušinimo etapo, priklausomai nuo keramikos
- Puikus metalo ir keramikos sukibimas, net be surišėjo
- Nebūtina oksidacinė kepimo programa
- Optimalios sąlygos lydimi lazeriu
- Lankstus pritaikymas ir lengvas lydymas, nekirbiškėja

QUANTITY	REF
1000g	133000
250g	133250

**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

NPM-BONDING ALLOY

**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

**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

**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