

NPM-BONDING ALLOY



TECHNINĖS SAVYBĖS:	
Atsparumas stresui (Rp 0.2)	650MPa
Galutinis tvirtumas	910MPa
Pailgėjimas	8%
Tamprumo modulis	200GPa
Kietumas vikariais	280 HV 10
Tankis	8.8 g/cm³
Lydimosi intervalas	1305 - 1400°C
Pašildymo temperatūra	850 - 950°C
Liejimo temperatūra	1500 - 1550°C
Išsiplėtimo koeficientas (20-600°C)	14,0 x 10⁻⁶ K⁻¹
Ar lydomas lazeriu?	Taip
Tipas (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/cm³
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 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: 25% 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 kepant keramikos mases
- › Nėra privalomo aušinimo etapo, priklausomai nuo keramikos
- › Puikus metalo ir keramikos sukibimas, net be surišėjo
- › Nebūtina oksidacinė kepimo programa
- › Optimalios sąlygos lydyti lazeriu
- › Lankstus pritaikymas ir lengvas lydimas, nekilbirkščiuoja

QUANTITY	REF
1000g	133000
250g	133250

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 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

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

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/cm³
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



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/cm³
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