

Unibon

Unique product for Uni-bonding with Porcelains

Sintered alloy

Sintered-alloy cylinder for casting of dental prostheses



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Sintered-alloy cylinder for casting of dental prostheses

- Premium nickel-based dental casting alloy for metal-ceramic restorations
- Excellent bonding capability with ceramics and high bond strength to ceramics
★bond strength ▶ **47 MPa**
- Easy grinding and polishing operations
- High durability
- Applicable using all known welding methods and laser welding



Nominal alloy composition		Practical properties	
Ni	Bal.	Colour	Silver
Cr	23.4 %	Melting interval	1270-1360 (°C)
Mo	9.9 %	Vickers hardness	225 (HV10)
Nb	2.9 %	Modulus of elasticity	237 (Gpa)
Si	1.3 %	Yield strength	405 (MPa)
Others	<1.0 %	Tensile strength	670 (MPa)
		Tensile elongation	9 (%)
		Density(as sintered)	7.90 (g/cm ³)
		(as cast)	8.25 (g/cm ³)

▶ This alloy is Beryllium free.



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