

NOMINAL PROPERTIES

Colour	silver
Melting interval	1280-1350 (°C)
Casting temperature	1420-1450 (°C)
Vickers hardness	235 (Hv10)
Modulus of elasticity	220 (Gpa)
Elongation limit (Rp 0,2)	(Rp 0,2) 375 (Mpa)
Tensile strength (Rm)	(Rm) 520 (Mpa)
Tensile elongation (A5)	11 (%)
Density	8,35 g/cm
WAK (25 - 500 °C)	13,8 (µm/mK)
WAK (25 - 600 °C)	14,1 (µm/mK)

NOMINAL ALLOY COMPOSITION

Ni Bal. | Cr 25 % | Mo 11 % | Si 1,6 % | Total all others < 1.0%
 This alloy is Beryllium free as defined in DIN EN ISO:22674

RF-Ni

NiCr based
 non-precious alloy



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RF-Ni

NiCr based
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Non-precious, beryllium free NiCr
based bonding alloys for ceramic
application

RF-Ni
Ni Bal. | Cr 25 % | Mo 11 % | Si 1,6 % | < 1.0%

For fabricating dental crowns, bridges and
frameworks according to the Directive
93/42/EEC on medical devices, conformity
assessment according to Annex VII + Annex V
(as Class IIa devices) fixed restorations. DIN EN
ISO 22674 standarts.



An universal nickel based bonding alloy
compatible with all ceramic materials with
appropriate range

With NiCr soldering rods Applicable using methods
for non precious dental alloys and such as laser
welding.

- High durability
- Applicable using all known welding methods and laser welding
- Easy finishing after casting
- Excellent bonding capability with ceramics
- Worldwide approved quality

Waxing-up:

As non-precious alloys undergo high shrinkage after casting, to achieve optimum fit an approximately 0.1 mm thick spacer should be created using die spacer. The same effect can be achieved with vacuum-formed copings and spacer foil.

For facing with porcelain, the metal must be at least 0.3 mm thick.

For facing with composite and retention beads, the metal must also be at least 0.3 mm thick. Avoid sharp edges throughout the entire wax pattern.