

NEOLOY® PLUS CoCr ALLOY



Neoloy Plus CoCr alloy provides excellent quality for cobalt-chromium cast partial dentures.

Neoloy Plus CoCr alloy is excellent for torch casting or induction casting. Its cylindrical ingot design provides quick melting and reduces oxidation.

Neoloy Plus CoCr alloy delivers inclusion-free precision castings with adjustable spring hardness, fracture resistant elasticity, and a brilliant luster, highly resistant to corrosion.

Neoloy Plus CoCr alloy provides:

- Consistent performance and longevity under repeated masticatory force
- Longevity due to yield strength and modulus of elasticity which prevent deformation of the primary framework and clasps
- A strong, passive protective oxide layer formulation, preventing corrosion damage
- Comfort, wearability, and lasting beauty

Applications

- Removable partial denture frameworks
- Clasps
- Saddles
- Implant superstructures
- Sub-structure for polymer resins (acrylic & composites)

Typical Material Properties*

Tensile Strength, Kpsi (MPa)	109.5 (755)	Vickers Hardness, HV1	354
Yield Strength, Kpsi (MPa)	86.5 (597)	Density, g/cm ³	8.7
Modulus of Elasticity, psi (Mpa) x 10 ⁶	26.1 (0.18)	Color / Form	White / Ingot
Elongation, %	7	Melting Range, °C	1,375-1,400

*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

Elemental Composition (wt %)**

Cobalt (Co)	Chromium (Cr)	Molybdenum (Mo)	Iron (Fe)
63.5%	27.0%	5.5%	2.0%

**As provided by the manufacturer.

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