

NEOLOY® PLUS CoCr ALLOY



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.

Available in Regular or Hard.

Features

- Excellent homogeneity and precise alloy chemistry with a balanced formulation of cobalt, chromium, and molybdenum
- 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 106	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.

Storage

Keep bag closed when not in use. Store locked up in a cool, dry area.

Safety

Before handling this material, review the corresponding Safety Data Sheet (SDS).



RANSOM & RANDOLPH

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Made in the USA

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Investing with Innovation™

NEOLOY[®] PLUS CoCr ALLOY

Availability

Hardness	Package Size	Item Number
Regular	1 kg (2.2 lb.) resealable bag	600000
Hard	1 kg (2.2 lb.) resealable bag	600030

To order, visit shop.ransomrandolph.com or contact an authorized distributor. For a list of authorized distributors near you, visit ransom-randolph.com/distributors or contact your region's R&R Customer Service Team.

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Issue Date: August 15, 2024

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