

President Dental GmbH
Zehentstadelweg 7
81247 München , Germany

Tel: 0049 89 127660240
Fax: 0049 89 127660269
<http://www.presidentdental.de>



FORMALLOY - H

Nominal Composition (mass %)

Co	Balance
Cr	30
Mo	5.5
C	Max. 0.50
Ni	Max. 0.10
Fe	Max. 0.70
Si	Max. 1.50
Other	Max. 0.50

* This alloy is Nickel, Beryllium and Cadmium free as defined by ISO 6871-1 and ISO 22674

FORMALLOY - H is a cobalt chromium base-metal casting alloy for the manufacture of removable partial dentures and bridgework. It conforms to the following International Standards:

EN 1641 §4.2	Dentistry – Medical Devices for Dentistry – Materials (Harmonised Standard i.a.w. MDD 93/42/EEC)
EN ISO 6871-1	Dental base metal casting alloys (Referenced in EN 1641)
ISO 22674	Dentistry - Metallic Materials for fixed and removable restoration and appliances (Type 4 and 5)

Nominal Properties (as-cast)

Proof Stress (Rp0.2)	610 MPa
Tensile Elongation	≥ 3.5 %
Ultimate Tensile Strength	800 MPa
Elastic Modulus	200-230 GPa
Vickers Hardness (HV ₃₀)	350-400
Melting Range (heating)	1270-1395°C
Density	8.3-8.4 g/cm ³
Solidification range (cooling)	1305-1365°C
Thermal expansion coefficient	≈ 14.9 μm/m.°C (25-500°C)