

## Properties of NeyOro® H

Neyoro® H was developed as a lower cost alternative to the 60% gold alloys historically used for dental implant copings and abutments. The patent pending composition is biocompatible and the higher melting range reduces concerns of thermal distortion during the dental prosthetic restoration cast on process.

Properties of Neyoro H	Composition Au + Pt + Pd + Ir = 100	
Mechanical Properties – Cold Worked		
	English	Metric
Hardness (Knoop)	200 - 270	
Young's Modulus	20 X 10 <sup>6</sup> psi	138 GPa
Yield Strength (0.2% offset)	70 - 100 ksi	483 - 690 MPa
Tensile Strength	85 - 125 ksi	586 - 862 MPa
Elongation	5 - 20%	5 - 20%
Physical Properties		
Melting Range	2642° – 2732° C	1450° – 1500° C
CTE	6.8 µin/in°F	12.3 µm/m°C
Biocompatibility	Extract	Result
Cytotoxicity - ISO 10993-5	1X MEM	Pass
Intracutaneous Study - ISO 10993-10	Sodium chloride / Sesame oil	Pass
Systemic Toxicity - ISO 10993-11	Sodium chloride / Sesame oil	Pass

The information contained in this Data Sheet is intended to assist you in the use of this product. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular application. The user should determine the suitability of this material for each application. Data is subject to change without notice.

### For More Information

[Contact Us to discuss your application with one of our Materials Specialists.](#)