

Kennametal Stellite Denertia N8 Nickel Dental Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Denertia N8 is a low-carbon nickel based porcelain-bonding alloy for the manufacture of dental crowns and bridges. This alloy is Beryllium and Cadmium free as defined by ISO 22674. Information provided by Kennametal Stellite.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kennametal-Stellite-Denertia-N8-Nickel-Dental-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.20 - 8.30 g/cc	0.296 - 0.300 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	200	200	
Tensile Strength, Ultimate	495 MPa	71800 psi	
Tensile Strength, Yield	350 MPa	50800 psi	Proof Stress
Elongation at Break	5.0 %	5.0 %	
Flexural Modulus	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.6 Åm/m-Å°C	8.11 Åin/in-Å°F	
	@Temperature 25.0 - 500 Å°C	@Temperature 77.0 - 932 Å°F	
Melting Point	1315 - 1380 Å°C	2399 - 2520 Å°F	
Solidus	1295 - 1335 Å°C	2363 - 2435 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.050 %	<= 0.050 %	
Chromium, Cr	24 %	24 %	
Cobalt, Co	<= 0.50 %	<= 0.50 %	
Iron, Fe	1.5 %	1.5 %	
Molybdenum, Mo	10.5 %	10.5 %	
Nickel, Ni	>= 61.15 %	>= 61.15 %	as balance
Other	<= 0.50 %	<= 0.50 %	

Component Elements Properties	Metric	English	Comments
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