

## Kennametal Stellite Denertia,ç N19 Nickel Dental Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

### Material Notes:

Denertia,ç N19 is a low-carbon nickel based porcelain-bonding alloy for the manufacture of dental crowns and bridges. This alloy is Beryllium and Cadmium free. Information provided by Kennametal Stellite,ç

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kennametal-Stellite-Denertia-N19-Nickel-Dental-Alloy.php](http://www.lookpolymers.com/polymer_Kennametal-Stellite-Denertia-N19-Nickel-Dental-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.20 g/cc	0.296 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	200	200	
Tensile Strength, Ultimate	640 - 700 MPa	92800 - 102000 psi	
Tensile Strength, Yield	360 - 480 MPa	52200 - 69600 psi	Proof Stress
Elongation at Break	>= 13 %	>= 13 %	
Flexural Modulus	170 GPa	24700 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.1 Åµm/m-Å°C	7.83 Åµin/in-Å°F	
	@Temperature 20.0 - 600 Å°C	@Temperature 68.0 - 1110 Å°F	
Melting Point	1300 - 1370 Å°C	2370 - 2500 Å°F	
Solidus	1260 - 1270 Å°C	2300 - 2320 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.050 %	<= 0.050 %	
Chromium, Cr	24 %	24 %	
Cobalt, Co	<= 1.0 %	<= 1.0 %	
Iron, Fe	1.0 %	1.0 %	
Molybdenum, Mo	9.5 %	9.5 %	
Nickel, Ni	>= 60.95 %	>= 60.95 %	as balance
Niobium, Nb (Columbium, Cb)	<= 1.0 %	<= 1.0 %	

Component Elements Properties <small>Other</small>	Metric <small>&lt;= 0.30 %</small>	English <small>&lt;= 0.30 %</small>	Comments
Silicon, Si	<= 2.0 %	<= 2.0 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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