

## Kennametal Stellite Denertia, C13 Cobalt Chromium Dental Alloy

Category : Metal , Nonferrous Metal , Cobalt Alloy

### Material Notes:

Denertia, C13 is a cobalt chromium base-metal casting alloy for the manufacture of removable partial dentures and bridgework. This alloy is Nickel, Beryllium and Cadmium free as defined in ISO 6871-1 and ISO 22674. Information provided by Kennametal Stellite, C13

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kennametal-Stellite-Denertia-C13-Cobalt-Chromium-Dental-Alloy.php](http://www.lookpolymers.com/polymer_Kennametal-Stellite-Denertia-C13-Cobalt-Chromium-Dental-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.30 - 8.40 g/cc	0.300 - 0.303 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	350 - 400	350 - 400	
Tensile Strength, Ultimate	800 MPa	116000 psi	
Tensile Strength, Yield	610 MPa	88500 psi	Proof Stress
Elongation at Break	>= 3.5 %	>= 3.5 %	
Flexural Modulus	200 - 230 GPa	29000 - 33400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.9 Åµm/m-Å°C	8.28 Åµin/in-Å°F	
	@Temperature 25.0 - 500 Å°C	@Temperature 77.0 - 932 Å°F	
Melting Point	1270 - 1395 Å°C	2320 - 2543 Å°F	
Solidus	1305 - 1365 Å°C	2381 - 2489 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.50 %	<= 0.50 %	
Chromium, Cr	30 %	30 %	
Cobalt, Co	>= 61.2 %	>= 61.2 %	as balance
Iron, Fe	<= 0.70 %	<= 0.70 %	
Molybdenum, Mo	5.5 %	5.5 %	
Nickel, Ni	<= 0.10 %	<= 0.10 %	
Other	<= 0.50 %	<= 0.50 %	

Component Elements Properties	Metric	English	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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