

Kennametal Stellite Denertiaâ„ç C4 Cobalt Chromium Dental Alloy

Category : Metal , Nonferrous Metal , Cobalt Alloy

Material Notes:

Denertiaâ„ç C4 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 Â§4.2, EN ISO 6871-1, ISO 22674. Information provided by Kennametal Stelliteâ„ç

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kennametal-Stellite-Denertia-C4-Cobalt-Chromium-Dental-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.40 g/cc	0.303 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	330 - 380	330 - 380	
Tensile Strength, Ultimate	770 - 780 MPa	112000 - 113000 psi	
Tensile Strength, Yield	600 MPa	87000 psi	Proof Stress
Elongation at Break	>= 3.0 %	>= 3.0 %	
Flexural Modulus	200 - 230 GPa	29000 - 33400 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	14.5 Âµm/m-Â°C @Temperature 25.0 - 500 Â°C	8.06 Âµin/in-Â°F @Temperature 77.0 - 932 Â°F	
Melting Point	1390 - 1440 Â°C	2530 - 2620 Â°F	
Solidus	1265 - 1355 Â°C	2309 - 2471 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.50 %	<= 0.50 %	
Chromium, Cr	29 %	29 %	
Cobalt, Co	>= 62.6 %	>= 62.6 %	as balance
Iron, Fe	<= 0.70 %	<= 0.70 %	
Molybdenum, Mo	5.8 %	5.8 %	
Nickel, Ni	<= 0.10 %	<= 0.10 %	

Component Elements Properties	Metric %	English %	Comments
Silicon, Si	<= 0.80 %	<= 0.80 %	

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