

Kennametal Stellite Denertiaâ„¸ C14 Cobalt Chromium Dental Alloy

Category : Metal , Nonferrous Metal , Cobalt Alloy

Material Notes:

Denertiaâ„¸ C14 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„¸

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kennametal-Stellite-Denertia-C14-Cobalt-Chromium-Dental-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.30 - 8.40 g/cc	0.300 - 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	13.4 Âµm/m-Â°C @Temperature 25.0 - 500 Â°C	7.44 Âµin/in-Â°F @Temperature 77.0 - 932 Â°F	
Melting Point	1400 - 1430 Â°C	2550 - 2610 Â°F	
Solidus	1285 - 1350 Â°C	2345 - 2460 Â°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.50 %	<= 0.50 %	
Chromium, Cr	29 %	29 %	
Cobalt, Co	>= 62.3 %	>= 62.3 %	as balance
Iron, Fe	<= 0.70 %	<= 0.70 %	
Molybdenum, Mo	5.9 %	5.9 %	
Nickel, Ni	<= 0.10 %	<= 0.10 %	

Component Elements Properties	Metric %	English %	Comments
Silicon, Si	<= 1.0 %	<= 1.0 %	

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