

Kennametal Stellite Deloro® 40G

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Nickel base. Good combination of wear resistance, corrosion resistance, machinability, and repairability. Machined with tungsten carbide tools, using slow speeds and light feeds. Finish grinding achieved with vitrified silicon carbide wheels. Applications include bottle making mold components such as neck rings, half bushings, and die inserts, also used for sealing faces in valves in both the oil and nuclear industries. Normally resistant to atmospheric, steam salt water and salt spray corrosion. Excellent oxidation resistance up to melting range. Satisfactory performance in many organic acids but high corrosion rates observed in hot, strong inorganic acids. Highly resistant to semi-molten glass. Normally used in the as-cast condition. Data provided by the manufacturer, Deloro Stellite Inc. Product of former Deloro Stellite Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kennametal-Stellite-Deloro-40G.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	312	312	Converted from Rockwell C hardness.
Hardness, Knoop	372	372	Converted from Rockwell C hardness.
Hardness, Rockwell A	67	67	Converted from Rockwell C hardness.
Hardness, Rockwell B	107	107	Converted from Rockwell C hardness. Beyond normal Rockwell B range, for comparison only.
Hardness, Rockwell C	30 - 38	30 - 38	
Hardness, Vickers	326	326	Converted from Rockwell C hardness.
Tensile Strength, Ultimate	385 MPa	55800 psi	
Tensile Strength, Yield	350 MPa	50800 psi	
Elongation at Break	1.0 %	1.0 %	
Modulus of Elasticity	198 GPa	28700 ksi	
Charpy Impact, Unnotched	4.00 J @Temperature 23.0 °C	2.95 ft-lb @Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
	11.4 Åµm/m-Å°C	6.33 Åµin/in-Å°F	

CTE linear Thermal Properties	Metric	English	Comments
	@ Temperature 20.0 - 100 Â°C	@ Temperature 68.0 - 212 Â°F	
	12.8 Âµm/m-Â°C	7.11 Âµin/in-Â°F	
	@Temperature 20.0 - 300 Â°C	@Temperature 68.0 - 572 Â°F	
	13.4 Âµm/m-Â°C	7.44 Âµin/in-Â°F	
	@Temperature 20.0 - 500 Â°C	@Temperature 68.0 - 932 Â°F	
	14.3 Âµm/m-Â°C	7.94 Âµin/in-Â°F	
	@Temperature 20.0 - 700 Â°C	@Temperature 68.0 - 1290 Â°F	
	15.4 Âµm/m-Â°C	8.56 Âµin/in-Â°F	
	@Temperature 20.0 - 900 Â°C	@Temperature 68.0 - 1650 Â°F	
Melting Point	985 - 1180 Â°C	1810 - 2160 Â°F	
Solidus	985 Â°C	1810 Â°F	
Liquidus	1180 Â°C	2160 Â°F	

Component Elements Properties	Metric	English	Comments
Boron, B	1.2 %	1.2 %	
Carbon, C	0.25 %	0.25 %	
Chromium, Cr	7.4 %	7.4 %	
Iron, Fe	5.3 %	5.3 %	
Nickel, Ni	82 %	82 %	As Remainder
Silicon, Si	4.0 %	4.0 %	

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