

Kennametal Stellite Stellite® 98M2 cast

Category : Metal , Nonferrous Metal , Cobalt Alloy , Superalloy

Material Notes:

Adhesive wear test data P/M 0.58 Typical applications include vane plugs, fuel metering pins, spacer bushings, ball bearing blanks, race bearing blanks, diesel engine exhaust, fluid valve seats, saw cutter inserts, miscellaneous wear parts. 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-Stellite-98M2-cast.php

Physical Properties	Metric	English	Comments
Density	8.45 g/cc	0.305 lb/in ³	P/M (98%)
	8.63 g/cc	0.312 lb/in ³	Theoretical

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	60	60	Hot hardness.
Tensile Strength, Ultimate	518 MPa	75100 psi	
Elongation at Break	<= 1.0 %	<= 1.0 %	in 25.4 mm

Thermal Properties	Metric	English	Comments
CTE, linear	10.8 Åµm/m-Å°C	6.00 Åµin/in-Å°F	
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
	11.1 Åµm/m-Å°C	6.17 Åµin/in-Å°F	
	@Temperature 20.0 - 200 Å°C	@Temperature 68.0 - 392 Å°F	
	11.5 Åµm/m-Å°C	6.39 Åµin/in-Å°F	
	@Temperature 20.0 - 300 Å°C	@Temperature 68.0 - 572 Å°F	
11.7 Åµm/m-Å°C	@Temperature 20.0 - 400 Å°C	@Temperature 68.0 - 752 Å°F	
	12.1 Åµm/m-Å°C	6.72 Åµin/in-Å°F	
@Temperature 20.0 - 500 Å°C	@Temperature 68.0 - 932 Å°F		
12.7 Åµm/m-Å°C	7.06 Åµin/in-Å°F		
@Temperature 20.0 -	@Temperature 68.0 -		

Thermal Properties	600 Â°C Metric	1110 Â°F English	Comments
	13.0 Âµm/m-Â°C	7.22 Âµin/in-Â°F	
	@Temperature 20.0 - 700 Â°C	@Temperature 68.0 - 1290 Â°F	
	13.4 Âµm/m-Â°C	7.44 Âµin/in-Â°F	
	@Temperature 20.0 - 800 Â°C	@Temperature 68.0 - 1470 Â°F	
	13.7 Âµm/m-Â°C	7.61 Âµin/in-Â°F	
	@Temperature 20.0 - 900 Â°C	@Temperature 68.0 - 1650 Â°F	
	14.1 Âµm/m-Â°C	7.83 Âµin/in-Â°F	
	@Temperature 20.0 - 1000 Â°C	@Temperature 68.0 - 1830 Â°F	
Melting Point	1224 - 1275 Â°C	2235 - 2327 Â°F	
Solidus	1224 Â°C	2235 Â°F	
Liquidus	1275 Â°C	2327 Â°F	

Component Elements Properties	Metric	English	Comments
Boron, B	1.0 %	1.0 %	
Carbon, C	2.0 %	2.0 %	
Chromium, Cr	30 %	30 %	
Cobalt, Co	31 %	31 %	As remainder
Iron, Fe	<= 5.0 %	<= 5.0 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	<= 0.80 %	<= 0.80 %	
Nickel, Ni	3.5 %	3.5 %	
Other	<= 2.0 %	<= 2.0 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Tungsten, W	18.5 %	18.5 %	
Vanadium, V	4.2 %	4.2 %	

Electrical Properties	Metric	English	Comments

Electrical Properties Magnetic Permeability	≤ 1.20 Metric	≤ 1.20 English	Comments 116 Verified
	@Temperature 22.0 Â°C	@Temperature 71.6 Â°F	

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