

Kennametal Stellite Deloro® 208 PM after P/M Processing

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Adhesive wear test data: cast 0.06 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-Deloro-208-PM-after-PM-Processing.php

Physical Properties	Metric	English	Comments
Density	8.40 g/cc	0.303 lb/in ³	P/M (98%)
	8.53 g/cc	0.308 lb/in ³	Theoretical

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	404	404	Converted from Rockwell C hardness.
	254	254	Converted from Rockwell C hardness
	@Temperature 760 Â°C	@Temperature 1400 Â°F	
Hardness, Knoop	337	337	Converted from Rockwell C hardness
	@Temperature 649 Â°C	@Temperature 1200 Â°F	
	373	373	Converted from Rockwell C hardness
Hardness, Rockwell A	@Temperature 538 Â°C	@Temperature 1000 Â°F	Converted from Rockwell C hardness
	486	486	
	299	299	Converted from Rockwell C hardness
Hardness, Rockwell A	@Temperature 760 Â°C	@Temperature 1400 Â°F	Converted from Rockwell C hardness
	402	402	
	@Temperature 649 Â°C	@Temperature 1200 Â°F	Converted from Rockwell C hardness
Hardness, Rockwell A	448	448	Converted from Rockwell C hardness
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
	72	72	Converted from Rockwell C Hardness.
		63	

Mechanical Properties	Metric	English	Comments
	@Temperature 760 Â°C	@Temperature 1400 Â°F	Converted from Rockwell C hardness
	69	69	
	@Temperature 649 Â°C	@Temperature 1200 Â°F	Converted from Rockwell C hardness
	71	71	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	Converted from Rockwell C hardness
Hardness, Rockwell B	113	113	Converted from Rockwell C Hardness. Beyond the normal Rockwell B range, for comparison only.
Hardness, Rockwell C	44	44	Hot hardness.
	25	25	
	@Temperature 760 Â°C	@Temperature 1400 Â°F	Hot hardness.
	37	37	
	@Temperature 649 Â°C	@Temperature 1200 Â°F	Hot hardness.
	41	41	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	Hot hardness.
Hardness, Vickers	428	428	Converted from Rockwell C hardness.
	261	261	
	@Temperature 760 Â°C	@Temperature 1400 Â°F	Converted from Rockwell C hardness
	352	352	
	@Temperature 649 Â°C	@Temperature 1200 Â°F	Converted from Rockwell C hardness
	393	393	
	@Temperature 538 Â°C	@Temperature 1000 Â°F	Converted from Rockwell C hardness
Tensile Strength, Ultimate	690 MPa	100000 psi	
	483 MPa	70100 psi	
	@Temperature 760 Â°C	@Temperature 1400 Â°F	
	552 MPa	80100 psi	
	@Temperature 538 Â°C	@Temperature 1000	

Mechanical Properties	Metric	English	Comments
	352 MPa	50700 psi	
	@Temperature 649 Â°C	@Temperature 1200 Â°F	
Elongation at Break	<= 1.0 %	<= 1.0 %	in 25.4 mm
	<= 1.0 %	<= 1.0 %	in 25.4 mm
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
	<= 1.0 %	<= 1.0 %	in 25.4 mm
	@Temperature 649 Â°C	@Temperature 1200 Â°F	
	1.0 %	1.0 %	in 25.4 mm
	@Temperature 760 Â°C	@Temperature 1400 Â°F	

Component Elements Properties	Metric	English	Comments
Boron, B	<= 1.0 %	<= 1.0 %	
Carbon, C	2.6 %	2.6 %	
Chromium, Cr	26 %	26 %	
Cobalt, Co	10 %	10 %	
Iron, Fe	12.5 %	12.5 %	
Manganese, Mn	<= 0.75 %	<= 0.75 %	
Molybdenum, Mo	10 %	10 %	
Nickel, Ni	24 %	24 %	As Remainder
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	
Tungsten, W	10 %	10 %	

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