

Kennametal Stellite Deloro® 711 PM after P/M Processing

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Deloro 711 is currently being developed. Adhesive wear test data: P/M 0.1, cast 0.1; Abrasive wear test data P/M 6 mm³, cast 26 mm³.

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-711-PM-after-PM-Processing.php

Physical Properties	Metric	English	Comments
Density	8.00 g/cc	0.289 lb/in ³	theoretical

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	476	476	Converted from Rockwell C hardness.
	394	394	Converted from Rockwell C hardness
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Hardness, Knoop	574	574	Converted from Rockwell C hardness.
	473	473	Converted from Rockwell C hardness
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Hardness, Rockwell A	75	75	Converted from Rockwell C hardness.
	72	72	Converted from Rockwell C hardness
	@Temperature 538 Â°C	@Temperature 1000 Â°F	
Hardness, Rockwell C	50	50	Hot hardness.
	72	72	
	@Temperature 649 Â°C	@Temperature 1200 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 538 Å°C	@Temperature 1000 Å°F	Hot hardness.
	43	43	
	@Temperature 649 Å°C	@Temperature 1200 Å°F	Hot hardness.
Hardness, Vickers	510	510	Converted from Rockwell C hardness.
	416	416	
	@Temperature 538 Å°C	@Temperature 1000 Å°F	Converted from Rockwell C hardness
	416	416	
	@Temperature 649 Å°C	@Temperature 1200 Å°F	Converted from Rockwell C hardness
Tensile Strength, Ultimate	559 MPa	81100 psi	
	490 MPa	71100 psi	
	@Temperature 538 Å°C	@Temperature 1000 Å°F	
	490 MPa	71100 psi	
	@Temperature 649 Å°C	@Temperature 1200 Å°F	
	504 MPa	73100 psi	
	@Temperature 760 Å°C	@Temperature 1400 Å°F	
Elongation at Break	<= 1.0 %	<= 1.0 %	in 25.4 mm
	<= 1.0 %	<= 1.0 %	
	@Temperature 538 Å°C	@Temperature 1000 Å°F	in 25.4 mm
	<= 1.0 %	<= 1.0 %	
	@Temperature 649 Å°C	@Temperature 1200 Å°F	in 25.4 mm

Component Elements Properties	Metric	English	Comments
Boron, B	<= 1.0 %	<= 1.0 %	
Carbon, C	2.7 %	2.7 %	
Chromium, Cr	27 %	27 %	
Cobalt, Co	12 %	12 %	

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	7.0 %	7.0 %	
Nickel, Ni	23 %	23 %	as balance
Tungsten, W	3.0 %	3.0 %	

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