

Kennametal Stellite Deloro® N-6 PM cast

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Adhesive wear test data: P/M 0.1, cast 0.1; Abrasive wear test data: P/M 17, cast 35. 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-N-6-PM-cast.php

Physical Properties	Metric	English	Comments
Density	8.19 g/cc	0.296 lb/in ³	P/M (98%)
	8.48 g/cc	0.306 lb/in ³	Theoretical

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	345	345	Converted from Rockwell C hardness.
	184	184	Converted from Rockwell B hardness
	@Temperature 760 °C	@Temperature 1400 °F	
Hardness, Knoop	291	291	Converted from Rockwell C hardness
	320	320	Converted from Rockwell C hardness
	@Temperature 649 °C	@Temperature 1200 °F	
Hardness, Rockwell A	413	413	Converted from Rockwell C hardness.
	215	215	Converted from Rockwell B hardness
	@Temperature 760 °C	@Temperature 1400 °F	
Hardness, Rockwell B	345	345	Converted from Rockwell C hardness
	382	382	Converted from Rockwell C hardness
	@Temperature 649 °C	@Temperature 1200 °F	
Hardness, Rockwell C	69	69	Converted from Rockwell C hardness.
	55	55	Converted from Rockwell B hardness
	@Temperature 538 °C	@Temperature 1000 °F	
Hardness, Rockwell D	66	66	Converted from Rockwell C hardness

Mechanical Properties	@Temperature 649 °C Metric	@Temperature 1200 °F English	Comments
	68	68	Converted from Rockwell C hardness
	@Temperature 538 °C	@Temperature 1000 °F	
Hardness, Rockwell B	110	110	Converted from Rockwell C hardness. Beyond normal Rockwell B range, for comparison only.
	90	90	Hot hardness
	@Temperature 760 °C	@Temperature 1400 °F	
Hardness, Rockwell C	38	38	Hot hardness.
	31	31	Hot hardness.
	@Temperature 649 °C	@Temperature 1200 °F	
	35	35	Hot hardness.
	@Temperature 538 °C	@Temperature 1000 °F	
Hardness, Vickers	362	362	Converted from Rockwell C hardness.
	188	188	Converted from Rockwell B hardness
	@Temperature 760 °C	@Temperature 1400 °F	
	302	302	Converted from Rockwell C hardness
	@Temperature 649 °C	@Temperature 1200 °F	
	334	334	Converted from Rockwell C hardness
	@Temperature 538 °C	@Temperature 1000 °F	
Modulus of Elasticity	200 GPa	29000 ksi	

Component Elements Properties	Metric	English	Comments
Boron, B	0.60 %	0.60 %	
Carbon, C	1.1 %	1.1 %	
Chromium, Cr	29 %	29 %	
Cobalt, Co	<= 3.0 %	<= 3.0 %	
Iron, Fe	<= 3.0 %	<= 3.0 %	
Manganese, Mn	<= 1.0 %	<= 1.0 %	
Molybdenum, Mo	5.5 %	5.5 %	
Nickel, Ni	54 %	54 %	As Remainder

Component Elements Properties	Metric	English	Comments
Tungsten, W	2.0 %	2.0 %	

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