

Kennametal Stellite Deloro[®] 716 PM with P/M Processing

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy

Material Notes:

Adhesive wear test data: cast 0.1; abrasive wear test data: cast 63 mm³. Deloro 716 is currently being developed. 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-716-PM-with-PM-Processing.php

Physical Properties	Metric	English	Comments
Density	8.17 g/cc	0.295 lb/in ³	theoretical

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	291	291	Converted from Rockwell C hardness.
Hardness, Knoop	345	345	Converted from Rockwell C hardness.
Hardness, Rockwell A	66	66	Converted from Rockwell C hardness.
Hardness, Rockwell B	105	105	Converted from Rockwell C hardness. Beyond normal Rockwell B scale, for comparison only.
Hardness, Rockwell C	31	31	
Hardness, Vickers	302	302	Converted from Rockwell C hardness.

Component Elements Properties	Metric	English	Comments
Boron, B	0.40 %	0.40 %	
Carbon, C	1.1 %	1.1 %	
Chromium, Cr	26 %	26 %	
Cobalt, Co	12 %	12 %	
Iron, Fe	29 %	29 %	
Molybdenum, Mo	3.0 %	3.0 %	
Nickel, Ni	23 %	23 %	As Remainder
Tungsten, W	3.5 %	3.5 %	

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