

The NanoSteel® Company SHS 9172 HVOF Steel Alloy, Atomized Powder

Category : Metal , Ferrous Metal , Alloy Steel , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

Coating Description: SHS 9172 HVOF is an iron based steel alloy with a nanoscale microstructure that features exceptional resistance to wear, abrasion, impact, corrosion and high temperature oxidation. SHS 9172 HVOF is also a coating alternative to electrolytic hard chromium. Key Performance Characteristics Exceptional abrasion resistance for a metallic material Significant corrosion and high temperature oxidation resistance Coatings provide hardness, corrosion and wear resistance superior to hard chrome Can be finished to very high surface specifications as a replacement for hard chrome Application Process: High Velocity Oxygen Fuel (HVOF) thermal spraying Information Provided by The NanoSteel Company, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_The-NanoSteel-Company-SHS-9172-HVOF-Steel-Alloy-Atomized-Powder.php

Physical Properties	Metric	English	Comments
Density	7.59 g/cc	0.274 lb/in ³	Coating Property
Porosity	<= 5.0 %	<= 5.0 %	Coating Property

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	1000 - 1100	1000 - 1100	kg/mm ² ; HV300

Component Elements Properties	Metric	English	Comments
Boron, B	<= 5.0 %	<= 5.0 %	
Carbon, C	<= 4.0 %	<= 4.0 %	
Chromium, Cr	<= 25 %	<= 25 %	
Iron, Fe	>= 28 %	>= 28 %	
Manganese, Mn	<= 3.0 %	<= 3.0 %	
Molybdenum, Mo	<= 6.0 %	<= 6.0 %	
Niobium, Nb (Columbium, Cb)	<= 12 %	<= 12 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	
Tungsten, W	<= 15 %	<= 15 %	

Descriptive Properties	Value	Comments
Impact Resistance	No delamination/cracking at 480 in-lbs	Drop Impact Testing
Wear Resistance Mass Loss (g)	0.07	2000 cycles; ASTM G65-04 Procedure B

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