

The NanoSteel® Company SHS 9290 PTAW Steel Alloy, Atomized Powder

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

Material Notes:

Coating Description: SHS 9290 PTAW is an iron based steel alloy with a near nanoscale (submicron) microstructure that features extreme wear and abrasion resistance with high toughness. SHS 9290 PTAW is an alternative to 65% tungsten carbide PTAW materials. Key Performance Characteristics 71 - 74 HRC hardness Extreme resistance to abrasion while maintaining significant toughness Alternative to 65% tungsten carbide PTAW materials Provides exceptional uniformity of hardness and wear performance across a range of service environments Application Process: PTAW Weld Overlay for Hardfacing Information Provided by The NanoSteel Company, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_The-NanoSteel-Company-SHS-9290-PTAW-Steel-Alloy-Atomized-Powder.php

Physical Properties	Metric	English	Comments
Density	7.72 g/cc	0.279 lb/in ³	Weld Deposit Property

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	71 - 74	71 - 74	

Component Elements Properties	Metric	English	Comments
Boron, B	<= 10 %	<= 10 %	
Carbon, C	<= 5.0 %	<= 5.0 %	
Chromium, Cr	<= 20 %	<= 20 %	
Iron, Fe	>= 18 %	>= 18 %	
Manganese, Mn	<= 5.0 %	<= 5.0 %	
Molybdenum, Mo	<= 10 %	<= 10 %	
Niobium, Nb (Columbium, Cb)	<= 10 %	<= 10 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	
Tungsten, W	<= 15 %	<= 15 %	
Vanadium, V	<= 5.0 %	<= 5.0 %	

Descriptive Properties	Value	Comments
Deposition Efficiency (%)	80-85	Weld Deposit Property
Impact Resistance	Passed multiple impacts at 165 ft-lbs	Drop Impact Testing
Wear Resistance Mass Loss (g)	0.06-0.08	6000 cycles; ASTM G65-04 Procedure A

Descriptive Properties	Value	Comments
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