

The NanoSteel® Company SHS 9700 PTAW Steel Alloy, Atomized Powder

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

Material Notes:

Coating Description: SHS 9700 PTAW is an iron based steel alloy with a near nanoscale (submicron) microstructure that features good abrasion and fine particle erosion resistance with no high-cost nickel, tungsten and molybdenum in the material chemistry. Key

Performance Characteristics 67 - 69 HRc single and double pass weld deposits Economical iron-based alternative to nickel based materials containing tungsten carbide Good resistance to abrasion and erosion from fine particles Highly refined microstructure 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-9700-PTAW-Steel-Alloy-Atomized-Powder.php

Physical Properties	Metric	English	Comments
Density	7.36 g/cc	0.266 lb/in ³	Weld Deposit Property

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	67 - 69	67 - 69	

Component Elements Properties	Metric	English	Comments
Boron, B	<= 6.0 %	<= 6.0 %	
Carbon, C	<= 2.0 %	<= 2.0 %	
Chromium, Cr	<= 18 %	<= 18 %	
Iron, Fe	>= 65 %	>= 65 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Niobium, Nb (Columbium, Cb)	<= 5.0 %	<= 5.0 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	

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)	0.11-0.16	6000 cycles; ASTM G65-04 Procedure A

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