

The NanoSteel® Company SHS 9700 GMAW OAW Steel Alloy, Cored Wire

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

Material Notes:

Coating Description: SHS 9700 GMAW OAW is an iron based steel alloy with a near nanoscale (submicron) microstructure that features exceptional abrasive wear resistance with superior toughness and no high-cost nickel, tungsten and molybdenum in material chemistry. Key Performance Characteristics 67 - 70 HRc single and double pass weld deposits Cost effective alternative to complex carbides: iron-based chemistry contains no tungsten, no molybdenum and no nickel Provides exceptional wear resistance lasting significantly longer than most chrome carbide and complex carbide alloys High resistance to abrasion while maintaining high toughness Crystalline microstructure is engineered to submicron (400 nm) size Maintains high hardness after exposure to high temperatures Application Process: GMAW OAW 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-GMAW-OAW-Steel-Alloy-Cored-Wire.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 - 70	67 - 70	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 5.0 %	<= 5.0 %	
Boron, B	<= 6.0 %	<= 6.0 %	
Carbon, C	<= 2.0 %	<= 2.0 %	
Chromium, Cr	<= 18 %	<= 18 %	
Iron, Fe	>= 60 %	>= 60 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Niobium, Nb (Columbium, Cb)	<= 5.0 %	<= 5.0 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	

Descriptive Properties	Value	Comments
Impact Resistance	Passed multiple impacts at 165 ft-lbs	Drop Impact Testing
Wear Resistance Mass Loss (g)	0.09-0.17	6000 cycles; ASTM G65-04 Procedure A

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