

The NanoSteel® Company SHS 9500 GMAW OAW Steel Alloy, Cored Wire

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

Material Notes:

Coating Description: SHS 9500 GMAW OAW is an iron based steel alloy featuring medium hardness, high toughness and high wear resistance. Key Performance Characteristics: 58-62 HRC single and double pass weld deposits Minimal cracking when applied to plain carbon and alloy steels Cost effective: contains no tungsten, molybdenum or nickel High resistance to abrasion and galling SHS GMAW OAW features a unique uniform glass-forming melt chemistry that allows high undercooling to be achieved during welding. This results in considerable refinement of the crystalline microstructure down to a near nanoscale (400 nm length scale) range. 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-9500-GMAW-OAW-Steel-Alloy-Cored-Wire.php

Physical Properties	Metric	English	Comments
Density	7.59 g/cc	0.274 lb/in ³	Weld Deposit Property

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	58 - 62	58 - 62	

Component Elements Properties	Metric	English	Comments
Boron, B	<= 6.0 %	<= 6.0 %	
Carbon, C	<= 3.0 %	<= 3.0 %	
Chromium, Cr	<= 10 %	<= 10 %	
Iron, Fe	>= 65 %	>= 65 %	
Manganese, Mn	<= 5.0 %	<= 5.0 %	
Niobium, Nb (Columbium, Cb)	<= 9.0 %	<= 9.0 %	
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)	0.19-0.25	6000 cycles; ASTM G65-04 Procedure A

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