

The NanoSteel® Company SHS 9192 GMAW OAW Steel Alloy, Cored Wire

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

Material Notes:

Coating Description: SHS 9192 GMAW OAW is an iron based steel alloy with a near nanoscale (submicron) microstructure that features extreme abrasion resistance with high toughness, high volume of hard phases and superior high temperature hardness. SHS 9192 is an alternative to chrome and tungsten carbides. Key Performance Characteristics 69 - 72 HRC single and double pass weld deposits Extreme resistance to abrasion while maintaining high toughness Alternative weld material to tungsten carbides, chrome carbides, complex carbides, stick weld material loaded with carbides, and tungsten carbide laden Teflon® sheet overlays 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-9192-GMAW-OAW-Steel-Alloy-Cored-Wire.php

Physical Properties	Metric	English	Comments
Density	7.68 g/cc	0.277 lb/in ³	Weld Deposit Property

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	69 - 72	69 - 72	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 5.0 %	<= 5.0 %	
Boron, B	<= 5.0 %	<= 5.0 %	
Carbon, C	<= 5.0 %	<= 5.0 %	
Chromium, Cr	<= 20 %	<= 20 %	
Iron, Fe	>= 28 %	>= 28 %	
Manganese, Mn	<= 5.0 %	<= 5.0 %	
Molybdenum, Mo	<= 10 %	<= 10 %	
Niobium, Nb (Columbium, Cb)	<= 10 %	<= 10 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	
Tungsten, W	<= 10 %	<= 10 %	

Descriptive Properties	Value	Comments
Impact Resistance	Passed multiple impacts at 165 ft-lbs	Drop Impact Testing

Wear Resistance Mass Loss (g)
Descriptive Properties

0.06-0.14
Value

6000 cycles; ASTM G65-04 Procedure A
Comments

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