

The NanoSteel® Company SHS 9800 Steel Alloy, Wear Plate

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Coating Description: SHS 9800 is a patented iron based glass forming steel alloy with a near nanoscale (submicron) microstructure that includes chromium, molybdenum and niobium in the material chemistry, resulting in an overlay wear solution well suited for the toughest jobs in the most extreme service environments. Key Performance Characteristics 68 - 71 HRc single and double pass weld deposits Maintains high hardness after exposure to high temperatures Exceptional resistance to severe sliding abrasion Toughness equivalent to 400 Brinell Q&T plate Forming/cutting response similar to standard chrome carbide plate Application Process: Weld Overlay for Wear Plate and Hardfacing Information Provided by The NanoSteel Company, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_The-NanoSteel-Company-SHS-9800-Steel-Alloy-Wear-Plate.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	68 - 71	68 - 71	

Component Elements Properties	Metric	English	Comments
Boron, B	<= 10 %	<= 10 %	
Carbon, C	<= 2.0 %	<= 2.0 %	
Chromium, Cr	<= 25 %	<= 25 %	
Iron, Fe	>= 33 %	>= 33 %	
Manganese, Mn	<= 5.0 %	<= 5.0 %	
Molybdenum, Mo	<= 10 %	<= 10 %	
Niobium, Nb (Columbium, Cb)	<= 10 %	<= 10 %	
Silicon, Si	<= 5.0 %	<= 5.0 %	

Descriptive Properties	Value	Comments
Impact Resistance	Passed multiple impacts at 165 ft-lbs	Drop Impact Testing
Wear Resistance Mass Loss (g)	0.09-0.13	6000 cycles; ASTM G65-04 Procedure A

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