The NanoSteel® Company SHS 9700E Steel Alloy, Stick Electrode

Category : Metal , Ferrous Metal , Alloy Steel

Material Notes:

Coating Description: SHS 9700E Stick Electrode 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 chemistry. SHS 9700E has been designed to be deposited on mild and low alloy steels.Key Performance Characteristics67 - 70 HRc single and double pass weld depositsCost effective alternative to complex carbides: iron-based chemistry contains no tungsten, no molybdenum and no nickelProvides exceptional wear resistance lasting significantly longer than most chrome carbide and complex carbide alloysHigh resistance to abrasion while maintaining high toughnessCrystalline microstructure is engineered to submicron (400 nm) sizeMaintains high hardness after exposure to elevated temperaturesApplication Process: SMAW Weld Overlay for HardfacingInformation Provided by The NanoSteel Company, Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_The-NanoSteel-Company-SHS-9700E-Steel-Alloy-Stick-Electrode.php

Physical Properties	Metric	English	Comments
Density	7.36 g/cc	0.266 lb/in³	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	<= 3.0 %	<= 3.0 %	
Chromium, Cr	<= 18 %	<= 18 %	
Iron, Fe	>= 49 %	>= 49 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Niobium, Nb (Columbium, Cb)	<= 10 %	<= 10 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	

Descriptive Properties	Value	Comments
Impact Resistance	Passed multiple impacts at 165 ft-lbs	Drop Impact Testing
Potassium Silicate (%)	< 5	
Wear Resistance Mass Loss (g)	0.09-0.17	6000 cycles; ASTM G65-04 Procedure A

Descriptive Properties	Value	Comments

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