

The NanoSteel® Company SHS 7570 TWAS Steel Alloy, Cored Wire

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

Material Notes:

Coating Description: SHS 7570 TWAS is an iron based steel alloy with a nanoscale microstructure that features exceptional combined wear, impact and corrosion resistance in high chlorine, salt fog, concentrated salt and seawater environments. Key Performance Characteristics: Excellent corrosion resistance and high wear and impact resistance. Especially resistant to corrosion in high chloride and seawater. Alternative to nickel superalloys and stainless steels. Cost-effective option for rebuilding worn out components and parts. Application Process: Twin Wire Arc Spraying (TWAS). Information Provided by The NanoSteel Company, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_The-NanoSteel-Company-SHS-7570-TWAS-Steel-Alloy-Cored-Wire.php

Physical Properties	Metric	English	Comments
Density	7.59 g/cc	0.274 lb/in ³	Coating Property
Porosity	<= 5.0 %	<= 5.0 %	Coating Property

Mechanical Properties	Metric	English	Comments
Vickers Microhardness	950 - 1150	950 - 1150	kg/mm ² ; HV300
Adhesive Bond Strength	58.6 - 86.2 MPa @Thickness 0.508 mm	8500 - 12500 psi @Thickness 0.0200 in	1018 steel; ASTM C633-01

Component Elements Properties	Metric	English	Comments
Boron, B	<= 5.0 %	<= 5.0 %	
Carbon, C	<= 2.0 %	<= 2.0 %	
Chromium, Cr	<= 25 %	<= 25 %	
Iron, Fe	>= 44 %	>= 44 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	<= 15 %	<= 15 %	
Silicon, Si	<= 2.0 %	<= 2.0 %	
Tungsten, W	<= 5.0 %	<= 5.0 %	

Descriptive Properties	Value	Comments
Deposition Efficiency (%)	70 - 80	Coating Property
Impact Resistance	No delamination/cracking at 480 in-lbs	Drop Impact Testing

Descriptive Properties Loss (g)

Value

Comments : ASTM G65-04 Procedure B

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China