

## The NanoSteel® Company SHS 9700 Steel Alloy, Wear Plate

Category : Metal , Ferrous Metal , Alloy Steel

**Material Notes:**

Coating Description: SHS 9700 wear plate has been designed to outperform carbide overlays and quench & temper steel wear plate, such as Brinell, AR-steel and Hardox. Key Performance Characteristics 66 - 69 HRC hardness Resistance to severe sliding abrasive wear and moderate impact Toughness equivalent to most standard wear materials Forming, cutting and fabricating response is 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-9700-Steel-Alloy-Wear-Plate.php](http://www.lookpolymers.com/polymer_The-NanoSteel-Company-SHS-9700-Steel-Alloy-Wear-Plate.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	66 - 69	66 - 69	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	<= 5.0 %	<= 5.0 %	
Boron, B	<= 6.0 %	<= 6.0 %	
Carbon, C	<= 2.0 %	<= 2.0 %	
Chromium, Cr	<= 18 %	<= 18 %	
Iron, Fe	>= 60 %	>= 60 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Niobium, Nb (Columbium, Cb)	<= 5.0 %	<= 5.0 %	
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)	0.09-0.17	6000 cycles; ASTM G65-04 Procedure A

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