

H.C. Starck Amperweld® AISI 316 L 150/53 Åµm for Plasma Transferred Arc Surfacing

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel , T 300 Series Stainless Steel

Material Notes:

AISI 316 L is a type of low carbon austenitic Cr-Ni-Mo stainless steel with good oxidation resistance in intermittent service to 870Å°C and in continuous service to 925Å°C, resistance to intercrystalline corrosion during continuous operation at up to 400Å°C, resistance to pitting and crevice corrosion and with a good resistance to corrosion in media containing chloride and non-oxidizing acids. This stainless steel type also has very good forming and welding characteristics with excellent toughness at cryogenic temperatures up to -196Å°C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-Amperweld-AISI-316-L-15053-m-for-Plasma-Transferred-Arc-Surfacing.php

Physical Properties	Metric	English	Comments
Particle Size	53 Åµm	53 Åµm	Maximum of 5% less than
	150 Åµm	150 Åµm	Maximum of 5% greater than

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	400 Å°C	752 Å°F	intercrystalline corrosion resistance, continuous
	870 Å°C	1600 Å°F	oxidation resistance, intermittent
Minimum Service Temperature, Air	-196 Å°C	-321 Å°F	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.030 %	<= 0.030 %	
Chromium, Cr	16 - 18 %	16 - 18 %	
Iron, Fe	61.895 - 70 %	61.895 - 70 %	
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	2.0 - 3.0 %	2.0 - 3.0 %	
Nickel, Ni	10 - 14 %	10 - 14 %	
Phosphorous, P	<= 0.045 %	<= 0.045 %	
Silicon, Si	<= 1.0 %	<= 1.0 %	
Sulfur, S	<= 0.030 %	<= 0.030 %	

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