

H.C. Starck Ampersint® AISI 316 L 300 μm For P/M, HIP/CIP, MIM

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 870°C and in continuous service to 925°C, resistance to intercrystalline corrosion during continuous operation at up to 400°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 -196°C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_HC-Starck-Ampersint-AISI-316-L-300-m-For-PM-HIPCIP-MIM.php

Physical Properties	Metric	English	Comments
Particle Size	300 μm	300 μm	Minimum of 95% less than

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