ATI Allegheny Ludlum AL-6XN PLUS™ Superaustenitic Stainless Steel

Category : Metal , Ferrous Metal , Austenitic , Stainless Steel

Material Notes:

Enhanced version of AL-6NX™, containing a greater concentration of the alloying elements which promote corrosion resistance.

Information provided by Allegheny Ludlum

Order this product through the following link:
http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-AL-6XN-PLUS-Superaustenitic-Stainless-Steel.php

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	21.8 %	21.8 %	
Copper, Cu	0.20 %	0.20 %	
Iron, Fe	>= 45.069 %	>= 45.069 %	As Remainder
Manganese, Mn	0.30 %	0.30 %	
Molybdenum, Mo	6.7 %	6.7 %	
Nickel, Ni	25.3 %	25.3 %	
Nitrogen, N	0.24 %	0.24 %	
Phosphorous, P	0.020 %	0.020 %	
Silicon, Si	0.35 %	0.35 %	
Sulfur, S	<= 0.0010 %	<= 0.0010 %	

Descriptive Properties	Value	Comments
Critical Crevice Corrosion Temperature, °C	45 (ASTM G48, Practice D)	Acified Ferric Chloride solution, Pickled Mill surface
	55 (ASTM G48, Practice B)	Acified Ferric Chloride solution, Pickled Mill surface
Critical Pitting Temperature, °C	90 (ASTM G48, Practice C)	Acified Ferric Chloride solution, Pickled Mill surface
Electrochemical Critical Pitting Temperature, °C	90 (ASTM G150)	1M NaCl solution, Ground Surface
Pitting Resistance Equivalent (PREN)	50.0 Minimum	

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