

ATI Allegheny Ludlum Type 310L Stainless Steel

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

Material Notes:

Corrosive attack of stainless steels by concentrated nitric acid often results in preferential attack of grain boundaries. The high Cr content combined with restricted levels of C, Si, P, S, and Mo provide the 310L alloy with outstanding resistance to intergranular attack in nitric acid environments. Information provided by Allegheny Ludlum Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Type-310L-Stainless-Steel.php

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	<= 217	<= 217	
Hardness, Rockwell B	<= 95	<= 95	
Tensile Strength, Ultimate	>= 517.1 MPa	>= 75000 psi	
Tensile Strength, Yield	>= 206.9 MPa	>= 30010 psi	
Elongation at Break	>= 40 %	>= 40 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.010 %	0.010 %	
Chromium, Cr	24.5 %	24.5 %	
Iron, Fe	54 %	54 %	as balance
Manganese, Mn	1.1 %	1.1 %	
Molybdenum, Mo	<= 0.30 %	<= 0.30 %	
Nickel, Ni	20.5 %	20.5 %	
Phosphorous, P	<= 0.020 %	<= 0.020 %	
Sulfur, S	<= 0.0010 %	<= 0.0010 %	

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