

ATI Allegheny Ludlum AL 412™ Dual Phase 12% Cr

Category : Metal , Ferrous Metal , Stainless Steel , T S40000 Series Stainless Steel

Material Notes:

Low carbon, nickel containing, dual phase 12% Cr stainless steel alloy. Characteristics: superior toughness to ferritic alloys, high strength, high corrosion resistance. Information provided by Allegheny Ludlum

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-AL-412-Dual-Phase-12-Cr.php

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	87	87	
Tensile Strength, Ultimate	565 MPa	81900 psi	
Tensile Strength, Yield	414 MPa @Strain 0.200 %	60000 psi @Strain 0.200 %	
Elongation at Break	24 %	24 %	in 2"
Charpy Impact	67.8 J @Temperature -73.3 °C	50.0 ft-lb @Temperature -100 °F	Transverse
	115 J @Temperature -73.3 °C	85.0 ft-lb @Temperature -100 °F	Longitudinal
	380 J @Temperature 15.6 °C	280 ft-lb @Temperature 60.0 °F	Longitudinal
	380 J @Temperature 15.6 °C	280 ft-lb @Temperature 60.0 °F	Transverse

Component Elements Properties	Metric	English	Comments
Carbon, C	0.020 %	0.020 %	
Chromium, Cr	11.75 %	11.75 %	
Iron, Fe	>= 86.13 %	>= 86.13 %	As Remainder
Manganese, Mn	0.90 %	0.90 %	
Nickel, Ni	0.40 %	0.40 %	
Nitrogen, N	<= 0.030 %	<= 0.030 %	
Phosphorous, P	<= 0.040 %	<= 0.040 %	
Silicon, Si	0.70 %	0.70 %	

Component Elements Properties	Metric	English	Comments
Sulfur, S	<= 0.030 %	<= 0.030 %	

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