

## ATI Allegheny Ludlum AL 610 Stainless Steel, UNS S30600

Category : Metal , Ferrous Metal , Stainless Steel , T 600 Series Stainless Steel

**Material Notes:**

AL 610 alloys are low-carbon, silicon-containing, austenitic stainless steels. These alloys are typically used for applications in the chemical industry. The high silicon content provides them with very good resistance to oxidizing environments, such as concentrated nitric acid, over a wide range of temperatures. Information provided by Allegheny Ludlum

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allegheny-Ludlum-AL-610-Stainless-Steel-UNS-S30600.php](http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-AL-610-Stainless-Steel-UNS-S30600.php)

Physical Properties	Metric	English	Comments
Density	7.674 g/cc	0.2772 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	86	86	Typical
Tensile Strength, Ultimate	710 MPa	103000 psi	Typical
Tensile Strength, Yield	323 MPa @Strain 0.200 %	46800 psi @Strain 0.200 %	Typical
Elongation at Break	58 %	58 %	typical in 2"

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.018 %	<= 0.018 %	
Chromium, Cr	17 - 18.5 %	17 - 18.5 %	
Copper, Cu	<= 0.50 %	<= 0.50 %	
Iron, Fe	58.9 - 65.3 %	58.9 - 65.3 %	as balance
Manganese, Mn	<= 2.0 %	<= 2.0 %	
Molybdenum, Mo	<= 0.20 %	<= 0.20 %	
Nickel, Ni	14 - 15.5 %	14 - 15.5 %	
Phosphorous, P	<= 0.020 %	<= 0.020 %	
Silicon, Si	3.7 - 4.3 %	3.7 - 4.3 %	
Sulfur, S	<= 0.020 %	<= 0.020 %	

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