

## ATI Allegheny Ludlum Grade 12 Titanium (UNS R53400)

Category : Metal , Nonferrous Metal , Titanium Alloy , Unalloyed/Modified Titanium

### Material Notes:

Uses: heat exchangers, industrial components, tubing, CPI equipment. Mechanical property data below is typical of annealed samples at room temperature. Information provided by Allegheny Ludlum.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allegheny-Ludlum-Grade-12-Titanium-UNS-R53400.php](http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Grade-12-Titanium-UNS-R53400.php)

Physical Properties	Metric	English	Comments
Density	4.52 g/cc	0.163 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	180	180	
Tensile Strength, Ultimate	620 MPa	89900 psi	
Tensile Strength, Yield	450 MPa @Strain 0.200 %	65300 psi @Strain 0.200 %	
Elongation at Break	22 %	22 %	

Component Elements Properties	Metric	English	Comments
Molybdenum, Mo	0.30 %	0.30 %	
Nickel, Ni	0.80 %	0.80 %	
Titanium, Ti	98.9 %	98.9 %	as balance

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