

## ATI Allegheny Ludlum Grade 3 Titanium (UNS R50550)

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

**Material Notes:**

Uses: CPI equipment, industrial components, heat exchangers. 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-3-Titanium-UNS-R50550.php](http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Grade-3-Titanium-UNS-R50550.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	200	200	
Tensile Strength, Ultimate	585 MPa	84800 psi	
Tensile Strength, Yield	450 MPa @Strain 0.200 %	65300 psi @Strain 0.200 %	
Elongation at Break	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	<= 0.10 %	<= 0.10 %	
Hydrogen, H	<= 0.015 %	<= 0.015 %	
Iron, Fe	<= 0.30 %	<= 0.30 %	
Nitrogen, N	<= 0.050 %	<= 0.050 %	
Oxygen, O	<= 0.35 %	<= 0.35 %	
Titanium, Ti	>= 99.2 %	>= 99.2 %	as balance

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