



ASM Aerospace Specification Metals Inc.



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Allegheny Ludlum Grade 1 Titanium (UNS R50250)

Subcategory: Metal; Nonferrous Metal; Titanium Alloy; Unalloyed/Modified Titanium

Key Words: ASTM B-265; ASME SB-265; DIN 3.7025

Component	Wt. %
C	Max 0.1
Fe	Max 0.2
H	Max 0.015
N	Max 0.03
O	Max 0.18
Ti	Min 99.5

Material Notes:

Titanium content above calculated as remainder. Uses: CPI equipment, industrial components, plate frame heat exchangers.

Mechanical property data below is typical of annealed samples at room temperature.

Information provided by Allegheny Ludlum.

Physical Properties	Metric	English	Comments
Density	<u>4.52 g/cc</u>	0.163 lb/in ³	
Mechanical Properties			
Hardness, Brinell	120	120	
Tensile Strength, Ultimate	<u>345 MPa</u>	50000 psi	
Tensile Strength, Yield	<u>206 MPa</u>	29900 psi	0.2% YS
Elongation at Break	<u>35 %</u>	35 %	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error.