



## ASM Aerospace Specification Metals Inc.

Contact Us

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

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

**Key Words:** ASTM B-265; ASME SB-265; AMS 4900; DIN 3.7055

| Component | Wt. %     |
|-----------|-----------|
| C         | Max 0.1   |
| Fe        | Max 0.3   |
| H         | Max 0.015 |
| N         | Max 0.05  |
| O         | Max 0.35  |
| Ti        | Min 99.2  |

#### Material Notes:

Titanium content above calculated as remainder. Uses: CPI equipment, industrial components, 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 <sup>3</sup> |          |
| <b>Mechanical Properties</b> |                  |                          |          |
| Hardness, Brinell            | 200              | 200                      |          |
| Tensile Strength, Ultimate   | <u>585 MPa</u>   | 84800 psi                |          |
| Tensile Strength, Yield      | <u>450 MPa</u>   | 65300 psi                | 0.2% YS  |
| Elongation at Break          | <u>25 %</u>      | 25 %                     |          |

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.