

## ATI Allegheny Ludlum Grade 1 Titanium (UNS R50250)

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

**Material Notes:**

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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allegheny-Ludlum-Grade-1-Titanium-UNS-R50250.php](http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Grade-1-Titanium-UNS-R50250.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          | 120                        | 120                          |          |
| Tensile Strength, Ultimate | 345 MPa                    | 50000 psi                    |          |
| Tensile Strength, Yield    | 206 MPa<br>@Strain 0.200 % | 29900 psi<br>@Strain 0.200 % |          |
| Elongation at Break        | 35 %                       | 35 %                         |          |

| Component Elements Properties | Metric     | English    | Comments   |
|-------------------------------|------------|------------|------------|
| Carbon, C                     | <= 0.10 %  | <= 0.10 %  |            |
| Hydrogen, H                   | <= 0.015 % | <= 0.015 % |            |
| Iron, Fe                      | <= 0.20 %  | <= 0.20 %  |            |
| Nitrogen, N                   | <= 0.030 % | <= 0.030 % |            |
| Oxygen, O                     | <= 0.18 %  | <= 0.18 %  |            |
| Titanium, Ti                  | >= 99.5 %  | >= 99.5 %  | as balance |

### Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China