

## ATI Allegheny Ludlum Grade 9 Titanium (UNS R56320)

Category : Metal , Nonferrous Metal , Titanium Alloy , Alpha/Near Alpha Titanium Alloy

### Material Notes:

Uses: heat exchangers, industrial components, tubing. 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-9-Titanium-UNS-R56320.php](http://www.lookpolymers.com/polymer_ATI-Allegheny-Ludlum-Grade-9-Titanium-UNS-R56320.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 4.59 g/cc | 0.166 lb/in <sup>3</sup> |          |

| Mechanical Properties      | Metric                     | English                      | Comments |
|----------------------------|----------------------------|------------------------------|----------|
| Hardness, Rockwell C       | 25                         | 25                           |          |
| Tensile Strength, Ultimate | 760 MPa                    | 110000 psi                   |          |
| Tensile Strength, Yield    | 655 MPa<br>@Strain 0.200 % | 95000 psi<br>@Strain 0.200 % |          |
| Elongation at Break        | 15 %                       | 15 %                         |          |

| Component Elements Properties | Metric     | English    | Comments   |
|-------------------------------|------------|------------|------------|
| Aluminum, Al                  | 3.0 %      | 3.0 %      |            |
| Carbon, C                     | <= 0.050 % | <= 0.050 % |            |
| Hydrogen, H                   | <= 0.015 % | <= 0.015 % |            |
| Iron, Fe                      | <= 0.13 %  | <= 0.13 %  |            |
| Nitrogen, N                   | <= 0.010 % | <= 0.010 % |            |
| Oxygen, O                     | <= 0.10 %  | <= 0.10 %  |            |
| Titanium, Ti                  | 94.5 %     | 94.5 %     | as balance |
| Vanadium, V                   | 2.5 %      | 2.5 %      |            |

## Contact Songhan Plastic Technology Co.,Ltd.

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