

## ATI Allvac® 6-4 Titanium Alloy, Heat Treatment: 704°C (1300°F) Anneal

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

### Material Notes:

Data provided by Allvac.Applications: Blades, discs, rings, airframe, fasteners, components. Vessels, cases, hubs, forgings. Standard, rotor/premium grades.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-6-4-Titanium-Alloy-Heat-Treatment-704C-1300F-Anneal.php](http://www.lookpolymers.com/polymer_ATI-Allvac-6-4-Titanium-Alloy-Heat-Treatment-704C-1300F-Anneal.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 4.43 g/cc | 0.160 lb/in <sup>3</sup> |          |

| Mechanical Properties      | Metric                     | English                       | Comments   |
|----------------------------|----------------------------|-------------------------------|--|
| Hardness, Brinell          | 304                        | 304                           | Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball |
| Hardness, Knoop            | 330                        | 330                           | Estimated from Rockwell C value.   |
| Hardness, Rockwell C       | 32                         | 32                            |  |
| Hardness, Vickers          | 318                        | 318                           | Estimated from Rockwell C value.   |
| Tensile Strength, Ultimate | 931 MPa                    | 135000 psi                    |  |
| Tensile Strength, Yield    | 862 MPa<br>@Strain 0.200 % | 125000 psi<br>@Strain 0.200 % |  |
| Elongation at Break        | 15 %                       | 15 %                          |  |
| Reduction of Area          | 30 %                       | 30 %                          |  |

| Component Elements Properties | Metric     | English    | Comments   |
|-------------------------------|------------|------------|------------|
| Aluminum, Al                  | 6.0 %      | 6.0 %      |            |
| 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                     | <= 0.20 %  | <= 0.20 %  |            |
| Titanium, Ti                  | 89 %       | 89 %       | as balance |
| Vanadium, V                   | 4.0 %      | 4.0 %      |            |

Component Elements Properties

Metric

English

Comments

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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