

## ATI Allvac® 6-2-4-6 Titanium Alloy, Heat Treatment: 885°C (1625°F) + Age

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

### Material Notes:

Data provided by Allvac.Applications: Intermediate-temperature jet engine applications. Blades, discs, spacers, seals. Standard, rotor/premium grades.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-6-2-4-6-Titanium-Alloy-Heat-Treatment-885C-1625F-Age.php](http://www.lookpolymers.com/polymer_ATI-Allvac-6-2-4-6-Titanium-Alloy-Heat-Treatment-885C-1625F-Age.php)

| Physical Properties | Metric    | English                  | Comments |
|---------------------|-----------|--------------------------|----------|
| Density             | 4.65 g/cc | 0.168 lb/in <sup>3</sup> |          |

| Mechanical Properties      | Metric                      | English                       | Comments   |
|----------------------------|-----------------------------|-------------------------------|--|
| Hardness, Brinell          | 351                         | 351                           | Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball |
| Hardness, Knoop            | 382                         | 382                           | Estimated from Rockwell C value.   |
| Hardness, Rockwell C       | 38                          | 38                            |  |
| Hardness, Vickers          | 367                         | 367                           | Estimated from Rockwell C value.   |
| Tensile Strength, Ultimate | 1172 MPa                    | 170000 psi                    |  |
| Tensile Strength, Yield    | 1104 MPa<br>@Strain 0.200 % | 160100 psi<br>@Strain 0.200 % |  |
| Elongation at Break        | 10 %                        | 10 %                          |  |
| Reduction of Area          | 15 %                        | 15 %                          |  |

| 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                      | 0.10 %     | 0.10 %     |          |
| Molybdenum, Mo                | 6.0 %      | 6.0 %      |          |
| Nitrogen, N                   | 0.020 %    | 0.020 %    |          |
| Oxygen, O                     | 0.12 %     | 0.12 %     |          |
| Tin, Sn                       | 2.0 %      | 2.0 %      |          |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| Zirconium, Zr                 | 4.0 %  | 4.0 %   |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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