

ATI Allvac® 6-4ELI 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: Applications requiring excellent fracture toughness and fatigue strength; aircraft, structural components, biomedical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-6-4ELI-Titanium-Alloy-Heat-Treatment-704C-1300F-Anneal.php

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

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------|------------|--|
| Hardness, Brinell | 290 | 290 | Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball |
| Hardness, Knoop | 315 | 315 | Estimated from Rockwell C value. |
| Hardness, Rockwell C | 30 | 30 | |
| Hardness, Vickers | 304 | 304 | Estimated from Rockwell C value. |
| Tensile Strength, Ultimate | 862 MPa | 125000 psi | |
| Tensile Strength, Yield | 793 MPa | 115000 psi | 0.2% Offset |
| Elongation at Break | 10 % | 10 % | |
| Reduction of Area | 25 % | 25 % | |

| 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 | <= 0.13 % | <= 0.13 % | |
| Titanium, Ti | 90 % | 90 % | as balance |
| Vanadium, V | 4.0 % | 4.0 % | |

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