

ATI Allvac® 70, Titanium Alloy, Heat Treatment: 704°C (1300°F) Anneal

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

Material Notes:

Data provided by Allvac.Applications: Airframe components, cryogenic vessels, heat exchangers, CPI equipment, condenser tubing, pickling baskets.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-70-Titanium-Alloy-Heat-Treatment-704C-1300F-Anneal.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 4.51 g/cc | 0.163 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------|------------------------------|----------|
| Hardness, Rockwell B | 100 | 100 | |
| Tensile Strength, Ultimate | 552 MPa | 80100 psi | |
| Tensile Strength, Yield | 483 MPa @Strain 0.200 % | 70100 psi @Strain 0.200 % | |
| Elongation at Break | 15 % | 15 % | |
| Reduction of Area | 25 % | 25 % | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|------------|------------|------------|
| Carbon, C | <= 0.10 % | <= 0.10 % | |
| Hydrogen, H | <= 0.015 % | <= 0.015 % | |
| Iron, Fe | <= 0.50 % | <= 0.50 % | |
| Nitrogen, N | <= 0.050 % | <= 0.050 % | |
| Oxygen, O | <= 0.40 % | <= 0.40 % | |
| Titanium, Ti | 99 % | 99 % | as balance |

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