

ATI Wah Chang 425™ Titanium Alloy, Hot Rolled & Annealed Plate

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

ATI 425™ titanium is an innovative high strength alloy that has strength comparable to Ti-6-4, yet has the advantage that it can be cold worked. Originally developed for armor plate for ballistic protection, it was observed during processing to have exceptional hot workability. ATI 425™ titanium is an alpha-beta alloy that utilizes iron in place of some higher-cost vanadium as a beta stabilizer. Information provided by ATI Wah Chang

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Wah-Chang-425-Titanium-Alloy-Hot-Rolled-Annealed-Plate.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Density | 4.48 g/cc | 0.162 lb/in ³ | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------------|-----------------------------------|----------|
| Hardness, Rockwell C | 32 - 36 | 32 - 36 | |
| Tensile Strength, Ultimate | 965 MPa | 140000 psi | Long. |
| | 1010 MPa | 146000 psi | Trans. |
| Tensile Strength, Yield | 876 MPa | 127000 psi | Long. |
| | 924 MPa | 134000 psi | Trans. |
| Elongation at Break | 16 % | 16 % | Long. |
| | 16 % | 16 % | Trans. |
| Modulus of Elasticity | 114 GPa | 16500 ksi | Long. |
| | 119 GPa | 17300 ksi | Trans. |
| Fracture Toughness | 60.0 - 84.6 MPa-m ^{1/2} | 54.6 - 77.0 ksi-in ^{1/2} | |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------------|----------------|----------|
| Melting Point | 1600 - 1650 °C | 2910 - 3000 °F | |
| Solidus | 1600 °C | 2910 °F | |
| Liquidus | 1650 °C | 3000 °F | |
| Beta Transus | 957 - 971 °C | 1750 - 1780 °F | |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
|-------------------------------|--------|---------|----------|

| Aluminum, Al Component Elements Properties | Metric | English | Comments |
|---|---------|---------|----------|
| Iron, Fe | 1.5 % | 1.5 % | |
| O2 | 0.25 % | 0.25 % | |
| Titanium, Ti | 91.75 % | 91.75 % | |
| Vanadium, V | 2.5 % | 2.5 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|-----------------|-----------------|----------|
| Electrical Resistivity | 0.000154 ohm-cm | 0.000154 ohm-cm | |

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