ATI Wah Chang 425™ Titanium Alloy, Annealed Bar 0.5 - 1.23 in. dia

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-Annealed-Bar-05-123-in-dia.php

Physical Properties	Metric	English	Comments
Density	4.48 g/cc	0.162 lb/in³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	32 - 36	32 - 36	
Tensile Strength, Ultimate	1010 MPa	146000 psi	Long.
Tensile Strength, Yield	862 MPa	125000 psi	Long.
Elongation at Break	16 %	16 %	Long.

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	4.0 %	4.0 %	
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 Properties	Metric	English	Comments
Electrical Resistivity	0.000154 ohm-cm	0.000154 ohm-cm	

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