

ATI Wah Chang TI-45 Nb

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Applications: Aerospace Rivet Material; High Pressure Oxygenated Gas Vents; Superconducting Wire Information provided by ATI Wah Chang

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Wah-Chang-TI-45-Nb.php

Physical Properties	Metric	English	Comments
Density	5.70 g/cc	0.206 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	546 MPa	79200 psi	
Tensile Strength, Yield	480 MPa	69600 psi	
Elongation at Break	23 %	23 %	in 1 in gage
Modulus of Elasticity	62.05 GPa	9000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.03 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	5.02 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	10.0 W/m-K	69.4 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Niobium, Nb (Columbium, Cb)	45 %	45 %	
Titanium, Ti	55 %	55 %	

Descriptive Properties	Value	Comments
Thermal Diffusivity, ft ² /sec	46.3	

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