

ATI Wah Chang Nb/Nb Alloy Nb-I ZR

Category : Metal , Nonferrous Metal , Niobium Alloy

Material Notes:

Improved creep strength versus pure niobium. Replacement for pure niobium in applications requiring the chemical resistance of niobium and a material with high melting temperature. Information provided by ATI Wah Chang

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Wah-Chang-NbNb-Alloy-Nb-I-ZR.php

Physical Properties	Metric	English	Comments
Density	8.58 g/cc	0.310 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	68.98 GPa	10000 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact	210 J	155 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	41.85 W/m-K	290.4 BTU-in/hr-ft ² -°F	
Melting Point	2400 - 2420 °C	4350 - 4390 °F	
Solidus	2400 °C	4350 °F	
Liquidus	2420 °C	4390 °F	

Optical Properties	Metric	English	Comments
Emissivity (0-1)	0.103	0.103	Total Hemispherical
	@Temperature 500 °C	@Temperature 932 °F	
	0.11	0.11	Total Hemispherical
	@Temperature 600 °C	@Temperature 1110 °F	
	0.117	0.117	Total Hemispherical
	@Temperature 700 °C	@Temperature 1290 °F	
	0.13	0.13	Total Hemispherical
	@Temperature 800 °C	@Temperature 1470 °F	
	0.142	0.142	Total Hemispherical

Optical Properties	@Temperature 900 °C Metric	@Temperature 1650 °F English	Comments
	0.154	0.154	Total Hemispherical
	@Temperature 100 °C	@Temperature 212 °F	
	0.167	0.167	Total Hemispherical
	@Temperature 1100 °C	@Temperature 2010 °F	
	0.179	0.179	Total Hemispherical
	@Temperature 1200 °C	@Temperature 2190 °F	

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