

ATI Wah Chang Tiadyne™ 3510

Category : Metal , Nonferrous Metal , Titanium Alloy

Material Notes:

Capable of being surface hardened to depths that produce very high wear resistance. Produced by traditional metallurgical processing, not special treatments. Information provided by ATI Wah Chang

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Wah-Chang-Tiadyne-3510.php

Physical Properties	Metric	English	Comments
Density	5.25 g/cc	0.190 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	250	250	200 g
Tensile Strength, Ultimate	827 MPa	120000 psi	Beta Quenched
	1100 MPa	160000 psi	Fully Hardened
Tensile Strength, Yield	345 MPa	50000 psi	Beta Quenched
	1030 MPa	150000 psi	Fully Hardened
Elongation at Break	12 %	12 %	Fully Hardened
	23 %	23 %	Beta Quenched
Modulus of Elasticity	62.1 GPa	9010 ksi	Beta Quenched
	71.7 GPa	10400 ksi	Fully Hardened

Thermal Properties	Metric	English	Comments
CTE, linear	2.34 µm/m-°C	1.30 µin/in-°F	
	@Temperature 500 °C	@Temperature 932 °F	
	13.7 µm/m-°C	7.60 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	7.58 W/m-K	52.6 BTU-in/hr-ft ² -°F	
	18.07 W/m-K	125.4 BTU-in/hr-ft ² -°F	
	@Temperature 500 °C	@Temperature 932 °F	

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

Niobium Nb (Columbium Cb) Component Elements Properties	10.7 - 11.7 % Metric	10.7 - 11.7 % English	Comments
O2	0.070 - 0.13 %	0.070 - 0.13 %	
Titanium, Ti	52.1455 - 55.23 %	52.1455 - 55.23 %	
Zirconium, Zr	34 - 36 %	34 - 36 %	

Descriptive Properties	Value	Comments
Thermal Diffusivity, cm²/sec	0.033	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China