

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

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-Solution-Treated-Annealed.php](http://www.lookpolymers.com/polymer_ATI-Wah-Chang-425-Titanium-Alloy-Hot-Rolled-Annealed-Plate-Solution-Treated-Annealed.php)

Physical Properties	Metric	English	Comments
Density	4.48 g/cc	0.162 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	32 - 36	32 - 36	
Tensile Strength, Ultimate	1140 MPa	166000 psi	Long.
	1180 MPa	171000 psi	Trans.
Tensile Strength, Yield	1020 MPa	148000 psi	Long.
	1070 MPa	155000 psi	Trans.
Elongation at Break	12 %	12 %	Long.
	12 %	12 %	Trans.

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 %	

Component Elements Properties	Metric	English	Comments
Vanadium, V	2.5 %	2.5 %	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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