

## ATI Allvac® 6-7 UNS R56700 Titanium Alloy

Category : Metal , Nonferrous Metal , Titanium Alloy

**Material Notes:**

Uses: Biomedical implants. Femoral hip stems, fracture fixation plates, spinal components, fasteners, nails, rods, screws, wire. Property values are for samples in the metallurgical condition: 1300°F anneal. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ATI-Allvac-6-7-UNS-R56700-Titanium-Alloy.php](http://www.lookpolymers.com/polymer_ATI-Allvac-6-7-UNS-R56700-Titanium-Alloy.php)

Physical Properties	Metric	English	Comments
Density	4.51 g/cc	0.163 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	32	32	
Tensile Strength, Ultimate	862 MPa	125000 psi	
Tensile Strength, Yield	793 MPa @Strain 0.200 %	115000 psi @Strain 0.200 %	
Elongation at Break	10 %	10 %	
Reduction of Area	25 %	25 %	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	6.0 %	6.0 %	
Carbon, C	<= 0.080 %	<= 0.080 %	
Hydrogen, H	<= 0.0090 %	<= 0.0090 %	
Iron, Fe	0.15 %	0.15 %	
Niobium, Nb (Columbium, Cb)	7.0 %	7.0 %	
Nitrogen, N	0.030 %	0.030 %	
Oxygen, O	<= 0.20 %	<= 0.20 %	
Tantalum, Ta	0.50 %	0.50 %	
Titanium, Ti	86 %	86 %	as balance

**Contact Songhan Plastic Technology Co.,Ltd.**Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China