

ATI Allvac® REX 734™ UNS S31675 Specialty Steel

Category : Metal , Ferrous Metal , Stainless Steel

Material Notes:

Uses: Medical and surgical devices; forged mono-block hip stems. Property values are for samples in the metallurgical condition: As rolled, warm worked. Information provided by Allvac, An Allegheny Teledyne Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-REX-734-UNS-S31675-Specialty-Steel.php

Physical Properties	Metric	English	Comments
Density	7.89 g/cc	0.285 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	22	22	
Tensile Strength, Ultimate	860 MPa	125000 psi	
Tensile Strength, Yield	485 MPa @Strain 0.200 %	70300 psi @Strain 0.200 %	
Elongation at Break	45 %	45 %	
Reduction of Area	70 %	70 %	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.040 %	0.040 %	
Chromium, Cr	20.8 %	20.8 %	
Copper, Cu	0.12 %	0.12 %	
Iron, Fe	62 %	62 %	as balance
Manganese, Mn	3.12 %	3.12 %	
Molybdenum, Mo	2.5 %	2.5 %	
Nickel, Ni	10 %	10 %	
Niobium, Nb (Columbium, Cb)	0.52 %	0.52 %	
Nitrogen, N	0.38 %	0.38 %	
Phosphorous, P	0.010 %	0.010 %	
Silicon, Si	0.38 %	0.38 %	

Sulfur S	0.0050 %	0.0050 %	
Component Elements Properties	Metric	English	Comments

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