

TIMET 100A CP Titanium

Category : Metal , Nonferrous Metal , Titanium Alloy , Unalloyed/Modified Titanium

Material Notes:

Industry Specifications: USA Aerospace: AMS 4921. Germany Engineering: 3.7065. Germany Aerospace: 3.7064. France: T-60. UK Aerospace Specifications BS TA. 7, 8, 9. Features: The mechanical properties of CP titanium are influenced by small additions of oxygen and iron. By careful control of these additions, the various grades of commercially pure titanium are produced to give properties suited to different applications. TIMETAL 35A contains the lowest oxygen and iron levels, producing the most formable grade of material. TIMETAL 50A, 65A, 75A, and 100A have progressively higher oxygen contents and correspondingly higher strength levels. Palladium stabilized grades of these materials are also available for enhanced corrosion resistance. Data provided by TIMET.

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMET-100A-CP-Titanium.php

Physical Properties	Metric	English	Comments
Density	4.51 g/cc	0.163 lb/in ³	Typical

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	725 MPa	105000 psi	Typical
Tensile Strength, Yield	570 MPa @Strain 0.200 %	82700 psi @Strain 0.200 %	Typical
Elongation at Break	16 %	16 %	Typical
Modulus of Elasticity	105 - 120 GPa	15200 - 17400 ksi	Typical
Fatigue Strength	360 MPa	52200 psi	Limit; test specifics not reported

Thermal Properties	Metric	English	Comments
Beta Transus	960 °C	1760 °F	

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