

TIMET TIMETAL® Code 12 Titanium Alloy (ASTM Grade 12)

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

Material Notes:

Features: Highly weldable, near-alpha alloy, exhibiting improved strength and temperature capability over CP combined with superior crevice corrosion resistance and excellent resistance under oxidizing to mildly reducing conditions especially chlorides. Data provided by TIMET.

Order this product through the following link:

http://www.lookpolymers.com/polymer_TIMET-TIMETAL-Code-12-Titanium-Alloy-ASTM-Grade-12.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	600 MPa	87000 psi	Typical
Tensile Strength, Yield	460 MPa @Strain 0.200 %	66700 psi @Strain 0.200 %	Typical
Elongation at Break	22 %	22 %	Typical
Modulus of Elasticity	105 - 120 GPa	15200 - 17400 ksi	Typical
Fatigue Strength	300 MPa	43500 psi	Limit; test specifics not reported
Bend Radius, Minimum	2.5 t @Thickness 2.00 mm	2.5 t @Thickness 0.0787 in	Typical; sheet

Thermal Properties	Metric	English	Comments
Beta Transus	890 °C	1630 °F	

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