

# TI-6Al-2Sn-4Zr-2Mo-Si (6-2-4-2)

## Technical Datasheet



Service. Quality. Value.

### Titanium Alloy

#### Typical Applications

- Jet engine compressors
- Airframe structures
- High performance racing engine components

#### Product Description

6-2-4-2 is a weldable, near-alpha titanium alloy offering excellent mechanical strength, stability and creep resistance to temperatures as high as 550°C. Density is 4.54 g/cc.

#### Weldability

The weldability of 6-2-4-2 alloy is fair.

#### Material Specifications

- ASTM UNS R54620
- AMS 4975, 4976 and 4919
- MIL T – 9046 and -9047G WNr. 3.7194

#### Availability

Round bar, sheet, plate

#### Corrosion Resistance

Corrosion resistance is good.

#### Chemical Composition (weight %)

Weight (%)	C	N	O	Fe	Al	Sn	Zn	Mo	Si	H
Max	0.08	0.05	0.12	0.25	6.5	2.25	4.5	2.25	0.10	0.0125

#### Mechanical Properties (minima at RT for Annealed Bar)

UTS, MPa	896
0.2% PS, MPa	827
Elongation % in 51mm GL	10
Reduction in area, %	25
Hardness, HRC	34

#### Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

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