

TITANIUM ALLOY

TYPICAL APPLICATIONS

Jet engine compressors
Airframe structures
High performance racing engine components

MATERIAL SPECIFICATIONS

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

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.

Corrosion resistance is good.

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

Density is 4.54 g/cc.

AVAILABILITY

Round bar
Sheet
Plate

CHEMICAL COMPOSITION (WEIGHT %)

	C	N	O	Fe	Al	Sn	Zn	Mo	Si	H
Min.					5.5	1.75	3.5	1.75		
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 DUPLEX ANNEALED BAR)

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

The nominal hardness is 34 HRC.

TECHNICAL SALES ASSISTANCE

Our resident team of qualified metallurgists and engineers will be pleased to assist further on any technical topic.

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