

TITANIUM ALLOY

TYPICAL APPLICATIONS

Gas turbine engine components
High performance racing engine components
Oil and gas production equipment

MATERIAL SPECIFICATIONS

- ASTM UNS R56260
- AMS 4981B
- MIL T - 9047G

PRODUCT DESCRIPTION

6-2-4-6 (a stronger derivative of 6-2-4-2) is an alpha-beta titanium alloy offering very high mechanical strength with good retention up to 450⁰C. The alloy is heat treatable and deep hardenable.

Corrosion resistance is good. The material is approved for sour service in the NACE MR-01-75 standard.

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

Density is 4.65 g/cc.

AVAILABILITY

Round bar

CHEMICAL COMPOSITION (WEIGHT %)

	C	N	Fe	O	Al	Sn	Zn	Mo	H
Min.					5.5	1.75	3.5	5.5	
Max.	0.04	0.04	0.15	0.5	6.5	2.25	4.5	6.5	0.0125

MECHANICAL PROPERTIES (MINIMA AT RT FOR DUPLEX ANNEALED)

UTS, MPa	0.2% PS, MPa	Elongation, % in 51mm GL	Reduction in area, %
1172	1103	10L 8T	20L 15T

The nominal hardness is 39 HRC.

TECHNICAL SALES ASSISTANCE

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

Advanced Metals International

Unit O, Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB United Kingdom

Tel: +44 (0) 1767 604 710 Fax: +44 (0) 01767 315 340 Email: sales@advancedmetals.com Website: www.advancedmetals.com

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