



Ti6Al2Sn4Zr6Mo / Ti-Gr-6-2-4-6

Titanium 6-2-4-6 is a heat treatable alpha-beta alloy, with which you can achieve higher strengths than with Titanium 6/4. The advantages of Titanium 6-2-4-6 are an increased strength, low cycle fatigue and its ductility. It has a high strength at temperatures up to 450 °C.

Advantages of Titanium 6Al/2Sn/4Zr/6Mo

- Low modulus of Elasticity
- Low Density to Weight Ratio
- Resistance to Fatigue
- Heat Treatable to attain higher strengths

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Material Data Sheet

Alloy	Titan 6Al-2Sn-4Zr-6Mo
UNS	UNS R56260
Norm	Titanium 6-2-4-6

Main fields of application of alloy Ti-Gr-6-2-4-6

Typical applications are in the intermediate stage compressors turbines, discs, blades and sour gas applications as well as in oil and gas industry.

Chemical composition of alloy Ti-Gr-6-2-4-6

Al	≤ % 5.5 < 6.5	C	≤ % 0.04 max
Su	≤ % 1.75 < 2.25	N	≤ % 0.04 max
Zr	≤ % 3.6 < 4.4	H	≤ % 0.125 max
Mo	≤ % 5.5 < 6.5	Cu	≤ % 0.50
Fe	≤ % 0.015 max	Fe	≤ % 1.5
O	≤ % 0.15 max	Res	≤ % 0.30

Properties

Melting Range	1595- 1675°C
Density	4.64 g/cm ³
Modulus	20° C 70-114 GPa
Beta Transus	935°C

Fatigue Failure and good resistance to fatigue

Specifications

The Hempel stock typically meets the following requirements:

MIL-T-9047

AMS 2631 Class A

The material is delivered with 3.1 certification.

3.2 Certification is available at extra cost.

Filler metal

not available

Delivery program

The Hempel Special Metal delivery program for Titanium 6-2-4-6 contains:

Sheets and plates 1.6 mm - 40 mm

Bars dia. 12 mm - 150 mm

Material Outlet by Hempel

ECONOXX.com offers buyers a new and uncomplicated procurement channel, which also includes small quantities and materials in special alloys at favourable conditions.

Contact us



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Services



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Plasma cutting



Shear cutting

Weight Calculator