

Technical datasheet

Ti-6AL4V | WL 3.7164

Major specifications

Grade 5	AMS 4928	ABS 5326C + AIMS 03-18-004	ABS 5453	ASNA 3304
3.7165	AMS 4911	ABS 5125A + AIMS 03-18-001	ASTM B265	ASNA 3307

Available product forms

Round bars in WL 3.7164

Sheets and plates in WL 3.7164

Sheets and plates in 3.7165

The current stock range can be found on www.sd-metals.com. Further dimensions available upon request.

Key features

Ti-6Al4V Grade 5 was originally developed for aviation and aerospace applications. Due to the combination of excellent strength, low weight, and excellent corrosion resistance, this alloy is now used in numerous applications, making it one of the most widely used titanium alloys today. It is also applied in the areas of sports, marine technology, and medical technology. Another advantage of Ti-6Al4V Grade 5 when annealed is that it is suitable for use at temperatures up to 400°C and is easy to forge, form, and weld.

Applications

- aircraft engine intake housings
- compressor blades
- disks
- hubs and spacers
- airframe components
- offshore oil and gas equipment
- power generation industry
- motorsport/automotive components
- consumer products

Chemical properties

Composition - limits in %

Al	V	Fe	O	Ti
5,50 - 6,57	3,5 - 4,5	max. 0,30	max. 0,20	Rest

Physical and thermal properties

Density	4,52 g/cm ³	Beta transus temperature	980 ± 4°C
Melting temperature	1648 °C	Thermal conductivity at 20°C	6,7 W/ m°C

Mechanical properties (room temperature)

	Yield strength	Tensile strength
0,30-6,00 mm thickness	min. 870 MPa	min. 920 MPa
6,00-100,00 mm thickness	min. 830 MPa	min. 900 MPa
Elongation		max. 10 %

Team Deutschland und Frankreich

Piotr Jurkiewicz | +49 4174 66 94 -115 | p.jurkiewicz@sd-metals.com
Lukasz Smiech | +49 211 23 09 99-24 | l.smiech@sd-metals.com

Team Rest-EU und Drittländer

Thomas Ziert | +49 211 23 09 99-12 | t.ziert@sd-metals.com
Kevin Verhoeven | +49 211 23 09 99-13 | k.verhoeven@sd-metals.com
S+D METALS GmbH | +49 4174 66 94 -0 | www.sd-metals.com

All information is subject to change without notice.
The properties correspond to the material in the heading. They may vary for other specifications.
Please contact us for more details.