

# Titan Grade 5

## 3.7164 (Ti6Al4V)

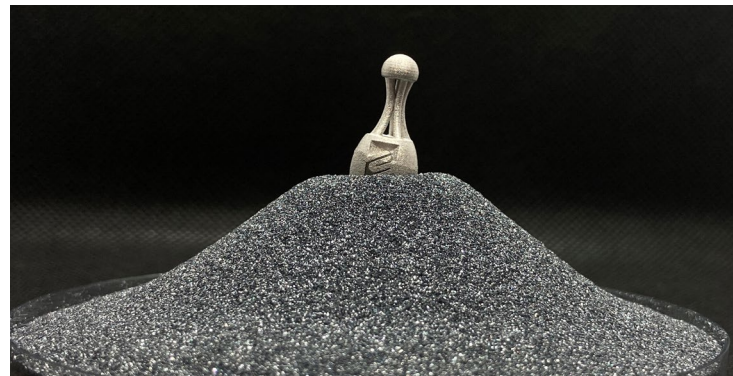
Titanium Grade V is one of the most widely used titanium alloys, with an excellent combination of strength, toughness and ductility. It is widely used in the following industries:

- aerospace
- medical technology and pharmacy
- implants
- ultrasound technology
- energy technology

The alloy is age-hardenable. Due to the sintering process in combination with our binder system, a slight carbide formation cannot be completely excluded at present.

## Properties

- weldability
- very good resistance to numerous corrosive media
- high resistance
- high fatigue strength



## Chemical composition

Abbreviated name	Material no.	Al	V	Fe	O	others
Ti6Al4V	37.164	5.5 - 6.75	3.5 - 4.5	≤ 0.30	≤ 0.20	C ≤ 0.08 H ≤ 0.0125

## Technical data

### General data

achievable surface quality

- „as sintered“
- after micro-rays

Ra 5 ± 1 µm

Ra 3 ± 2 µm

### Physical characteristics

sensity

4.43 g/cm<sup>3</sup>

achievable relative density with standard parameters

96 - 99.5 %

