

# Ti grade 2

## SPECIFICATIONS

EU T 40

WN 3.7035

USA R50400

## MATERIAL DESCRIPTION

Titanium of commercially pure and biocompatible grade. It combines moderate mechanical properties with very good corrosion resistance especially in the marine environment.

## COMPOSITION

weight %

Ti	Balance
Fe	<0,3
O	<0,3
C	<0,08

## APPLICATIONS

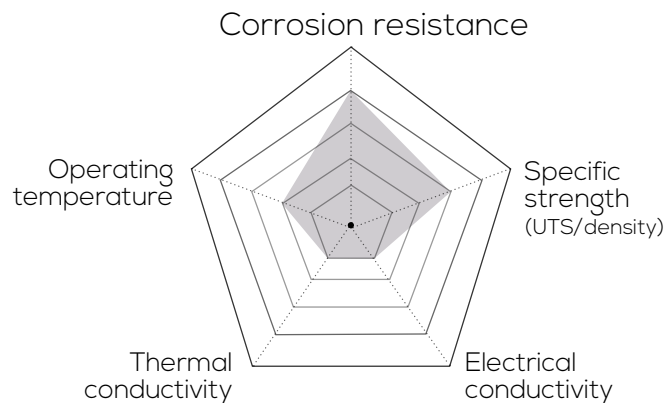


## Typical mechanical properties

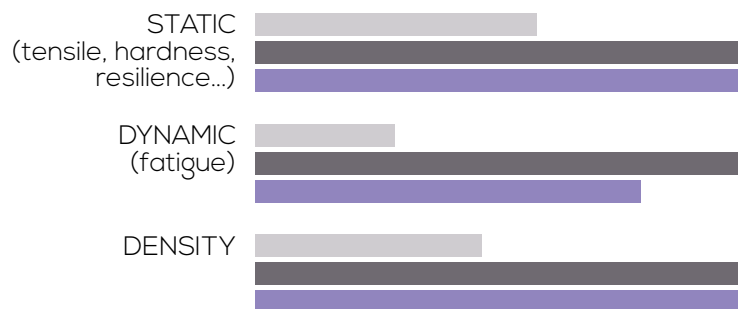
The data provided in this document represent typical but not guaranteed values.

	Stress-relieved
Ultimate Tensile Strength UTS, ksi	109
Yield Strength YS, ksi	94
Elongation at break E 5D, %	24

## Physical properties



## Qualitative comparison according to processes



■ FONDERIE ■ FORGING ■ PBF (LASER POWDER BED FUSION)

## Technical data

PARTICULES SIZE :  
Available in different granulometries.

SUPPLIERS :  
AddUp will provide support with your choice of powder supplier.

### Applications, in detail



#### **CHEMICAL INDUSTRY**

Piping and tap

The corrosion resistance of Ti grade 2, especially when exposed to seawater or chlorine medium, make it useful for piping and taps in chemical industries and industries exposed to marine environments

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#### **MEDICAL**

Artificial heart

Titanium is a biocompatible and light-weight material.

Coupled with metal additive manufacturing processes, it is a perfect candidate for complex medical implants that require moderate strength.