



## Titanium Alloy

# T40

Pure titanium

Previous brand name: TITAL 125

## SPECIFICATIONS

AECMA:

- Designation: TI-99002

WL 3.7034

UNS : R50400

## MECHANICAL PROPERTIES

- Annealed condition:

- Tensile test at ambient temperature

- UTS: 460 N/mm<sup>2</sup>

- 0.2 % Yield strength: 350 N/mm<sup>2</sup>

- Elongation (5d): 20 %

- Tensile test at 400°C

- UTS: 150 N/mm<sup>2</sup>

- 0.2 % Yield strength: 90 N/mm<sup>2</sup>

- Elongation (5d): 25 %

## COMPOSITION

Titanium.....Base

## APPLICATIONS

- Marine, Chemical industry.

## CHARACTERISTICS

- Alpha type pure titanium alloy.

## HEAT TREATMENT

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- This alloy is generally delivered in the annealed condition.

## PHYSICAL PROPERTIES

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- Density: 4.51
- Mean coefficient of expansion in m/m.°C:
  - between 20°C and 400°C:  $9.2 \times 10^{-6}$
- Thermal conductivity in W.m/m<sup>2</sup>.°C:
  - at 20°C: 17
- Critical point:
  - Beta Transus: 913°C

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