AUBERT&DUVAL

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/mm²
  - 0.2 % Yield strength: 350 N/mm²
  - Elongation (5d): 20 %

- Tensile test at 400°C

  - UTS: 150 N/mm²
  - 0.2 % Yield strength: 90 N/mm²
  - Elongation (5d): 25 %

COMPOSITION

Titanium .....Base

APPLICATIONS

- Marine, Chemical industry.

CHARACTERISTICS

- Alpha type pure titanium alloy.

HEAT TREATMENT

- This alloy is generally delivered in the annealed condition.

PHYSICAL PROPERTIES

- Density: 4.51

- Mean coefficient of expansion in m/m.°C:
  - between 20°C and 400°C: 9.2×10^{-6}

- Thermal conductivity in W.m/m².°C:
  - at 20°C: 17

- Critical point:
  - Beta Transus: 913°C

AUBERT & DUVAL

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