



Titanium Alloy **TA6Zr4DE** Ti-6Al-2Sn-4Zr-2Mo

SPECIFICATIONS

AECMA:

- Designation: TI-P65002

WL : 3.7144

UNS : R54620

MECCHANICAL PROPERTIES

- Heat treated condition:

- Tensile test at ambient temperature

- UTS:	1000 N/mm ²
- 0.2 % Yield strength:	940 N/mm ²
- Elongation (5d):	15 %

- Tensile test at 480 °C

- UTS:	680 N/mm ²
- 0.2 % Yield strength:	520 N/mm ²
- Elongation (5d):	18 %

COMPOSITION

Aluminium	6.00
Tin	2.00
Zirconium	4.00
Molybdenum	2.00
Titanium	Base

APPPLICATIONS

- Compressor discs - hot area. Impellers.

CHARACTERISTICS

- Alpha-beta titanium alloy.

HEAT TREATMENT

- This alloy is generally delivered in the heat treated condition.

PHYSICAL PROPERTIES

- Density: 4.54
- Mean coefficient of expansion in m/m. °C:
 - between 20 °C and 400 °C: 7.7×10^{-6}
- Thermal conductivity in W.m/m². °C:
 - at 20 °C: 6.92
- Critical point:
 - Beta Transus: 996 °C

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