

SPECIFICATIONS

UNS: R56410

COMPOSITION

Vanadium.....	10.00
Iron.....	2.00
Aluminum.....	3.00
Titanium.....	Base

TYPICAL MECHANICAL PROPERTIES

- Heat treated condition:
 - Tensile test at ambient temperature:
 - UTS: 1000 to 1300 N/mm²
 - 0.2 % Yield strength: 900 to 1200 N/mm²
 - Elongation (5d): 5 to 12 %
 - Tensile test at 315°C:
 - UTS: 900 to 1170 N/mm²
 - 0.2 % Yield strength: 800 to 1080 N/mm²
 - Elongation (5d): 5 to 12 %

APPLICATIONS

- Structural parts.
- Helicopter rotor hubs.
- Landing gear.

CHARACTERISTICS

- Quasi-beta titanium alloy.

HEAT TREATMENT

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

PHYSICAL PROPERTIES

- Density: 4.65
- Mean coefficient of expansion in m/m.°C:
 - between 20°C and 400°C: 9.7×10^{-6}
- Thermal conductivity in W.m/m².°C:
 - at 20°C: 7.8
- Critical points:
 - Beta Transus: 800°C

Contact:

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The data provided in this document represent typical or average values rather than maximum or minimum guaranteed values. The applications indicated for the grades described are given as guidance only in order to help the reader in his personal assessment. Please note that these do not constitute a guarantee whether implicit or explicit as to whether the grade selected is suited to specific requirements. Aubert & Duval's liability shall not under any circumstances extend to product selection or to the consequences of that selection.