

Material Data Sheet

(1083) - Titan Grade 1

The alloy corresponds to the standard ASTM F 67. In the shape of wires and bars, the hydrogen content of the material meets the requirement below; for sheets, strips and plates, the standard requirement is fulfilled.

1. Composition

Ti	99.502%
Fe	<0.200%
O	<0.180%
C	<0.080%
N	<0.030%
H	<0.008%

2. Physical Properties

Melting range	1610°C
Density	4.5 g/cm ³
Young's Modulus	103 GPa
Colour	grey

3. Mechanical Properties

Hardness HV5	annealed > 150
Tensile strength (Rm)	> 240 MPa
0.2% Proof stress (Rp 0.2%)	> 170 MPa
Elongation	> 24 %

4. Certification

The alloy corresponds to the standard ASTM F 67. In the shape of wires and bars, the hydrogen content of the material meets the requirement below; for sheets, strips and plates, the standard requirement is fulfilled.

Manufacture, packing and delivery are constantly monitored according to the quality management system standards according to ISO 9001 and ISO 13485.

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