

DATA SHEET

TITAN GRADE 3

Major specifications

ASTM B863 | 3.7055 | UNS R50550

Product forms

Wire

The current Stock Range can be found on www.sd-metals.com. Further dimensions available upon request.

Key features

Pure titanium Grade 3 offers higher strength compared to Grade 1 and Grade 2 but has similar corrosion stability.

Other advantages of Grade 3 titanium are its high strength-to-weight ratio and the ability to use it in strongly oxidizing to weakly reducing environments.

Areas of application

Especially for contacts in anodized frame construction, machinery, spare parts- and precision mechanics.

CHARACTERISTIC

Chemical composition limits in %

(ASTM B863 neueste Ausgabe)

Ti	Rest
Fe	max. 0,50
O	max. 0,35
C	max. 0,08
N	max. 0,05
H	max. 0,015

Physical constants and thermal properties

Density	4,51 g/cm ³
Melting point	1670°C
Beta transus temperature	920 ± 4°C
Thermal conductivity at 20°C	20 W/ m°C

Typical mechanical properties (room temperature)

Yield strength	min. 379 MPa
Tensile strength	min. 448 MPa
Elongation	min. 18%

All information is subject to change without notice.

The properties correspond to the material in the heading. They may vary for other specifications. Please contact us for more details.