

TECHNICAL DATA

Standards

DIN Material Nr. 3.7235

ASTM :	Ti-Grade 7
UNS :	RS52400

General Properties / Field of Applications

DSI M Titan Grade7 is a low alloyed Titanium Laser Welding Wire. The addition alloys of Pd and Ni + Mo increases resistance to solutions and reduces the risk of corrosion, especially in media containing chloride. Due to its special properties, titanium 3.7235 is used primarily in the field of chemical and petrochemical apparatus engineering. Other areas of application include medical technology, motorsports, electroplating and the outdoor sector. The metal is also used in heat exchangers and for maritime applications.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	≥ 275
Tensile strength R_m	[MPa] / [N/mm ²]	≥ 345
Elongation (A $L_0 = 5d_0$)	[%]	20
Hardness	[HB 30]	≤ 150

Chemical Composition (Standard Values in %)

C	N	Ti	Fe	O	H	Pd
≤ 0.08	≤ 0.03	Rest	≤ 0.30	≤ 0.25	≤ 0.015	0.12-.25

Packaging and available Sizes*

Spool : MA125 mm	Ø mm	0.3 / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 1.0 / 1.2
Rod : 500 / 1000 mm	Ø mm	0.3 / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 1.0 / 1.2

* Other dimensions available on request

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