

TECHNICAL DATA

Standards

DIN Material Nr. 3.0805

EN ISO 18273 :	S Al 1450 (Al99,5Ti)
AWS 5.10 :	-

General Properties / Field of Applications

DSI M Alu99.5 Ti is a pure Aluminum Laser Welding Wire with Titanium content for improving weldability by a fine grain structure. For welding joints and depositing on Aluminum base materials. The weld seam area must be bare metal.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	30
Tensile strength R_m	[MPa] / [N/mm ²]	65
Elongation A ($L_0 = 5d_0$)	[%]	35
Electrical conductivity	[S*m/mm ²]	34 - 36
Hardness	[HB]	90 - 120

Chemical Composition (Standard Values in %)

Al	Ti
99.5	0.17

Compatible Materials (Selection)

Pure aluminum e.g. EN AW-1050A (Al 99.5) / EN AW-1200 (Al 99.0) / A356 / AlSi12
EN AW-1350 (Al 99.5A) / AlSi6Cu4 / ER4045 / ER4047 / ER5356

Packaging and available Sizes*

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

* Other dimensions available on request

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