

TECHNICAL DATA

Standards

DIN Material Nr. 2.4155

EN ISO 18274 :	S Ni 2061 (NiTi3)
AWS A5.14 :	ERNi-1

General Properties / Field of Applications

DSI M NiTi3 is a Laser Welding Wire, Nickel-based with 3% Titanium, particularly low carbon content, weld to material for operating temperature unto +450°C; tough at sub-zero down to -196°C.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	300
Tensile strength R_m	[MPa] / [N/mm ²]	500
Elongation A ($L_0 = 5d_0$)	[%]	30
Notch impact work	[J]	150 at +20°C

Chemical Composition (Standard Values in %)

C	Si	Mn	Fe	Ti	Ni
0.02	0.3	0.3	≤ 0.1	3.2	Base

Compatible Materials (Selection)

Pure nickel, as well as LC nickel e.g. Ni99.6 (2.4061), low-alloyed Ni alloys such as NiMn1 (2.4106) and NiMn5 (2.4116), G-Ni95 (2.4170) as well as joints with steel, cast steel, copper and copper with high-alloy steel, cladding and buffer layers.

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

wires@dsilaser.com