

TECHNICAL DATA

Standards

DIN Material Nr. 1.5125

EN ISO 14341-A :	G 42 4 M21 3Si1
AWS A 5.18 :	ER 70S-6

General Properties / Field of Applications

DSI M 96 is an unalloyed martensitic Laser Welding Wire of general structural steels, pipe and cast steels. General areas of application are steel, shipbuilding, mechanical engineering, tank and boiler construction and the automotive industry.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	460
Tensile strength R_m	[MPa] / [N/mm ²]	560
Elongation A ($L_0 = 5d_0$)	[%]	27
Notch impact work	[J]	75 at -40°C

Chemical Composition (Standard Values in %)

C	Si	Mn
0.07	0.9	1.45

Compatible Materials (Selection)

S185 - P355T1 / S235JR - S355J0 / S235JR - S355J2 / P235G1TH - P265G1TH
P235GH / P265GH / P235TR2 - P355T2 / E295 / L210 - L360NB / S255N - S380N
P295GH, P355GH and similar steels with a yield strength of up to 420MPa.

Packaging and available Sizes*

Spool : MA125 mm	Ø mm	0.2 / 0.3 / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 1.0 / 1.2
Rod : 500 / 1000 mm	Ø mm	0.2 / 0.3 / 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 1.0 / 1.2

* Other dimensions available on request

wires@dsilaser.com