

TECHNICAL DATA

Standards

DIN Material Nr. 1.4462

EN ISO : 14343-A	G 22 9 3 N L
AWS A5.9 :	ER2209

General Properties / Field of Applications

DSI M Connect 3 is a Duplex steel Laser Welding Wire with an ferritic-austenitic structure with both components in approximately the same ratio. This material combines high strength performance of ferritic Cr-steel with the corrosion resistance of austenitic CrNiMo-steels. The material perform parallel the high strength and toughness as well as high resistance of corrosion and tension crack corrosion for operating temperature up to 250°C.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	600
Tensile strength R_m	[MPa] / [N/mm ²]	780
Elongation A ($L_0 = 5d_0$)	[%]	28
Impact Work KV	[J]	75 at +20°C

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Ni	Mo	N
0.01	0.5	1.6	22.9	8.7	3.1	0.15

Compatible Materials (Selection)

DUPLEX steel / Stainless ferritic-austenitic steel / cast steel / 1.4462 X2CrNiMo22-5-3
1.4362 X2CrNiN23-4 / ASTM A 988 Gr. UNS 31803 / joints with unalloyed, low-alloyed and stainless steel/cast steel.

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

