

TECHNICAL DATA

Standards

DIN Material Nr. 1.4542

EN ISO :	-
AWS A5.9 :	ER630

General Properties / Field of Applications

DSI M Connect 2 is a Chromium-Nickel steel Laser Welding Wire. Suitable for precipitation hardening. Use for medical industry, space and aerospace (MRO) industry, power generation, turbine components and pumps industry.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	≥725
Tensile strength R_m	[MPa] / [N/mm ²]	≥930
Elongation A ($L_0 = 5d_0$)	[%]	≥5
Hardness	[HRC]	35 - 40

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Ni	Mo	Cu	Nb
0.03	0.4	0.6	16.3	4.8	0.2	3.5	0.2

Compatible Materials (Selection)

SUS630 (medical grade) / Stainless steel / 1.0204 / 1.4542 / S17400 Type 630
17-4PH / 15-5PH / 410 / 420 / 400C / 904L / 304 / 316 / 347 / D2 / H13 / A2
1.4525 (GX5CrNiCu16-4) / 1.4542 (X5CrNiCuNb16-4) / 1.4548 (X5CrNiCuNb17-4-4)
J92180 Gr. CB Cu-1 / SAE J467 / Precipitation-hardenable forged and cast steels

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

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