

TECHNICAL DATA

Standards

DIN Material Nr. 1.4122

EN ISO 14343-A :	G Z17MoH/G
DIN 8555 :	MSG 6-GZ-50-ZR
AWS A5.9 :	ER430 mod.

General Properties / Field of Applications

DSI M 20Plus is a Laser Welding Wire with 17.5% Cr-Alloy, corrosion resistance. For joining and deposit welding on homogeneous or similar alloyed. For depositing stainless sealing surfaces on gas, water and steam fittings made of unalloyed or low-alloy steels and cast steels for operating temperatures up to 500°C. High heat resistance, wear resistant, seawater and scale resistant up to 900°C.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	550 (after HT 760°C/2hrs)
Tensile strength R_m	[MPa] / [N/mm ²]	900 (after HT 760°C/2hrs)
Elongation A ($L_0 = 5d_0$)	[%]	12 (after HT 760°C/2hrs)
Hardness untreated	[HRC]	47 - 52

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Mo	Ni
0.4	0.5	0.5	17.5	1.0	0.5

Compatible Materials (Selection)

STAVAX / KSP1 / HPM38 / KTSM60 / SUS420J2 / STAVAX (Edge and hard areas).

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

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