

TECHNICAL DATA

Standards

DIN Material Nr. 1.4115

EN ISO 14343-A :	G Z17Mo
DIN 8555 :	MSG 6-GZ-45-ZR
AWS A5.9 :	ER430 mod.

General Properties / Field of Applications

DSI M 20 is a martensitic Laser Welding Wire for corrosion and scale resistant chromium steel. Heat and scale resistant up to 900°C, temperature resistant up to 550°C. High resistance against abrasion, adhesion, cavitation and combined wear mechanism. Corrosion resistance against many saline solution, particularly sea water.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	490
Tensile strength R_m	[MPa] / [N/mm ²]	690
Elongation A ($L_0 = 5d_0$)	[%]	15
Hardness	[HRC]	35 - 45

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Ni	Mo
0.21	0.4	0.3	17.5	0.5	1.1

Compatible Materials (Selection)

STAVAX / MIRRAX / HPM38 / Z35CD17S / Cobalt68 / M310 / X50CrMoV15
1.2083 / 1.2316 / 1.2082 / 1.2085 / 1.4057 / 1.4125 / AISI 440A / AISI 420

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

