

TECHNICAL DATA

Standards

DIN Material Nr. 1.4351

EN ISO 14343-A :	G 13 4
AWS A5.9 :	ER410NiMo

General Properties / Field of Applications

DSI M 410NiMo is a Laser Welding Wire suitable for similar corrosion-resistant, martensitic and martensitic-ferritic rolled, forged and cast steels. Application in water turbine and compressor construction, in steam power plant construction and as well as other chemical and petrochemical applications. Resistant to water and steam atmospheres, also resistant to cavitation. Excellent laser welding and flow behaviour.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	≥ 500
Tensile strength R_m	[MPa] / [N/mm ²]	≥ 750
Elongation A ($L_0 = 5d_0$)	[%]	≥ 15
Impact work KV	[J]	≥ 32 at +20°C

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Ni	Mo
0.02	0.4	0.5	12.2	4.5	0.5

Compatible Materials (Selection)

Martensitic chrome steels such as 1.4317 GX4CrNi13-4 / 1.4313 X3CrNiMo13-4 / 1.4407 GX5CrNiMo13-4 / 1.4414 GX4CrNiMo13-4 / ACI Gr. CA6NM
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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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