

TECHNICAL DATA

Standards

DIN Material Nr. 2.4886

EN ISO 18274 :	S Ni 6276 (NiCr15Mo16Fe6W4)
AWS A5.14 :	ERNiCrMo-4

General Properties / Field of Applications

DSI M HasC276 is a Nickel-base alloy Laser Welding Wire with high corrosion resistance in reducing but primarily oxidised media. For joints and overlays on alloys of identical or similar characteristics and cast alloys. Welding the cladding side of sheets with identical or similar overlay. The structure is created austenitic but ferrite-free. Exceptional resistance to sulphurous acids at high chloride containing media and strong oxidising solutions which contain e.g. ferric and cupric chlorides.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	≥450
Tensile strength R_m	[MPa] / [N/mm ²]	≥720
Elongation A ($L_0 = 5d_0$)	[%]	≥30
Impact Work KV	[J]	≥70 at +20°C

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Ni	Mo	W	Fe
< 0.01	0.02	0.4	16.0	Base	16.2	3.4	5.9

Compatible Materials (Selection)

NiMo16Cr15W (2.4819) and for cladding on low alloyed and hot working steels
Alloy C276 / UNS N10276 / oil and gas industry / chemical processing equipment

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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