

TECHNICAL DATA

Standards

DIN Material Nr. 2.4665

AMS :	5798
AWS A5.14 :	ERNiMoCr-2

General Properties

DSI M Has X is a Nickel-based superalloy Laser Welding Wire. Primarily alloyed with chromium, iron and molybdenum that possesses an exceptional combination of oxidation resistance, fabric-ability and high- temperature strength. It has also been found to be exceptionally resistant to stress- corrosion cracking in petrochemical applications. X-alloy exhibits good ductility after pro- longed exposure at temperatures of 650, 760 and 870°C for 16,000 hours.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	379
Tensile strength R_m	[MPa] / [N/mm ²]	765
Elongation A ($L_0 = 5d_0$)	[%]	44

Chemical Composition (Standard Values in %)

Ni	Cr	Fe	Mo	Co	Si	Mn	W	C
Base	22.0	19.0	9.0	2.0	1.0	1.0	1.0	<1.0

Field of applications (Selection)

Jet engine components / combustion chambers / afterburners / gas turbines / heat exchangers / heat-treating equipment / furnace parts / high-temperature reactors.

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

