

TECHNICAL DATA

Standards

DIN Material Nr. 1.4337

EN ISO 14343-A :	W 29 9 / G 29 9
AWS A 5.9 :	ER 312 mod.

General Properties / Field of Applications

DSI M Connect HF is a Laser Welding Wire made of ferritic-austenitic chromium-nickel steel for welding of different types of steel and for deposition. Due to high ferrite content and high particularly suitable for difficult-to-weld materials. For materials with higher strength, also on tools suitable. Joints of different alloyed steels, tough intermediate layers for hard surfacing. Due to high strength and work hardening ability also suitable for wear resistant coatings on couplings, gear wheels, shafts and tools.

Mechanical Properties

Yield strength Rp 0.2	[MPa] / [N/mm ²]	540
Tensile strength Rm	[MPa] / [N/mm ²]	760
Elongation A (L ₀ = 5d ₀)	[%]	25
Notch impact work	[J]	30 at +20°C
Hardness untreated	[HRC]	29-31

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	Ni
0.1	0.4	1.7	30.4	9.0

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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