

TECHNICAL DATA

Standards

DIN Material Nr. 1.4718

DIN EN 14700 :	S Fe8
DIN 8555 :	MSG 6-GZ-60-S

General Properties / Field of Applications

DSI M 10 is a ferritic stainless steel Laser Welding Wire with heat strength up to 500°C, scale resistant up to 800°C. High resistance against adhesive and abrasive wear. Highly wear resistant welding on cutting, bending, forming tools. Used for crack-, cut-, and abrasion-resistant. Build-up welding on wear parts which are exposed to heavy impact and medium abrasion stress, e.g. rock processing plants, mining-, cement- and steelworks. The weld metal can only be machined by grinding.

Mechanical Properties

Hardness untreated	[HRC]	58-60
Soft annealed (780°C - 820°C, 2-4 hr)	[HRC]	27
Hardened (compressed air 1,180°C - 1,220°C)	[HRC]	63
Tempered twice (540°C - 560°C, 1hr, air)	[HRC]	65

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr
0.5	3.0	0.4	9.2

Compatible Materials (Selection)

SKD11 / HPM31 / GGG70L / DC53 / SKH51 / Z160CDV12 / 1.4724 / 1.4841

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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