

TECHNICAL DATA

Standards

DIN Material Nr. 1.2567

EN 14700 :	S Fe3
JIS :	SKD5 (similar but not identical)

General Properties / Field of Applications

DSI M 55 is a Laser Welding Wire for wear resistant and crack repairing on hot work tools which has stressed of friction, impact and pressure e.g. die casting and plastic molds, press sleeves, press disks, press or impact dies, punches, upsetting tools. For welding on both hot and cold tools with universal applicable using. Best compromising between hardness and crack resistance in even hot work.

Mechanical Properties

Hardness untreated	[HRC]	42 - 46
Hardness soft annealed	[HB]	230
Hardened 1,080°C/Oil	[HRC]	52
Tempered 600°C	[HRC]	48

Chemical Composition (Standard Values in %)

C	Si	Mn	Cr	V	W
0.2	0.2	0.3	2.4	0.6	4.5

Compatible Materials (Selection)

S55C / SKD61 / KP4M / Z38CDV5 / S50C / DAC10 / M310 / DH3-15 / DHA1 / 8407
Toolox44 / 1.2343 / 1.2344 / 1.2479 / 1.2767 / AISI H13 / X40CrMoV5-1 / BH13

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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