

TECHNICAL DATA

Standards

DIN Material Nr. 2.1461

EN ISO 24373 :	S Cu 6560 (CuSi3Mn1)
AWS A5.7 :	ERCuSi-A

General Properties / Field of Applications

DSI M 100 is a BeCu-Alloy (bronze) Laser Welding Wire based on copper-silicon alloy, often with alloying elements of iron, nickel and manganese. Mainly used in molds and dies industry and the chemical industry, wherever a wear-resistant, low friction weld surface is required.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	120
Tensile strength R_m	[MPa] / [N/mm ²]	350
Elongation A ($L_0 = 5d_0$)	[%]	40
Hardness	[HB]	80

Chemical Composition (Standard Values in %)

Cu	Si	Sn	Fe	Mn
Base	2.9	0.01	0.06	0.9

Compatible Materials (Selection)

Beryllium copper / galvanized steel sheets and copper-silicon and copper-manganese alloys of the same type. CuSi2Mn / CuSi3Mn / CuZn5 , CuZn10 / CuZn15

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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