

TECHNICAL DATA

Standards

DIN Material Nr. 3.2585

EN ISO 18273 :	S Al 4047 (AlSi12)
AWS A5.10 :	ER4047

General Properties / Field of Applications

DSI M AluCF is a Laser Welding Wire for Aluminum alloy, cast alloy up to 12% Si, strong prevention of cracking after welding. The weld area must be metallically bright.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	60
Tensile strength R_m	[MPa] / [N/mm ²]	130
Elongation A ($L_0 = 5d_0$)	[%]	6
Hardness	[HB]	110
Coefficient of thermal expansion	[1/K]	20*10 ⁻⁶

Chemical Composition (Standard Values in %)

AL	Si
Base	11.7

Compatible Materials (Selection)

EN AC-43000 (G-AlSi10Mg) / EN AC-44200 (G-AlSi12) / EN AC-46200 (G-AlSi8Cu3)

Packaging and available Sizes*

Spool : MA125 mm	Ø mm	0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 1.0 / 1.2
Rod : 500 / 1000 mm	Ø mm	0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 1.0 / 1.2

* Other dimensions available on request

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