

TECHNICAL DATA

Standards

DIN Material Nr. 2.0923

EN ISO 24373 :	S Cu 6560 (CuAl9Ni5Fe3Mn2)
AWS A5.7 :	ERCuNiAl

General Properties / Field of Applications

DSI M 120Yellow SR is a Laser Welding Wire for surfacing of complex aluminum bronzes, copper aluminum and nickel alloy, non-alloy and low-alloy steels. High resistance against erosion and abrasion. Corrosion and seawater resistant. For joining and repair on offshore and desalting equipment, marine industry, reactor construction and similar applications.

Mechanical Properties

Yield strength $R_{p0.2}$	[MPa] / [N/mm ²]	380
Tensile strength R_m	[MPa] / [N/mm ²]	600
Elongation A ($L_0 = 5d_0$)	[%]	16
Hardness	[HB]	200

Chemical Composition (Standard Values in %)

Cu	Al	Ni	Fe	Mn
Base	8.8	4.4	3.2	1.4

Compatible Materials (Selection)

Copper-Aluminium-Nickel-alloys, seawater resistant deposit welding on unalloyed and low alloyed steels. As well for cast steels and dissimilar joints of aluminium bronze with steel.

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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