

TECHNICAL DATA

Standards

Material : correspond to Stellite 1

AWS 5.21 :	ERCCoCr-C
DIN EN 14700 :	T Co 3-55-CGTZ

General Properties

DSI M Co1F is the hardest standard Cobalt-base alloyed Laser Welding Cored Wire with an austenitic-leaduburitic structure. It has and excellent wear resistance to corrosion, especially to reducing acids and impacts. Beside it's high resistant to extreme wear and temperature shocks, erosion and cavitation at elevated temperatures. The weld is only machinable by grinding.

Mechanical Properties

Tensile strength R _m	[MPa] / [N/mm ²]	700 - 800
Max. operation temperature	[°C]	700
Hardness	[HRC]	52 - 55

Chemical Composition (Standard Values in %)

Co	Cr	W	C	Fe	Mn	Si
Base	29	11.5	2.4	≤ 3	0.4	0.7

Field of Applications (Samples)

Best used on wear pads, rotary seal rings, pump sleeves, centerless grinder work rests, bearing surfaces, hot shear blades, valves and other chemical industry components.

Packaging and available Sizes*

Spool : SH 253 / BS 300	Ø mm	1.2 / 1.6
Rod : 500 / 1000 mm	Ø mm	1.2 / 1.6

* Other dimensions available on request

wires@dsilaser.com