

TECHNICAL DATA

Standards

Material : correspond to Stellite 21

AWS 5.21 :	ERCoCr-C
DIN EN 14700 :	T Co 1-350-CKTZ

General Properties

DSI M Co21F is a Cobalt-base alloyed Laser Welding Cored Wire with an excellent wear resistance to abrasion and in metal to metal application. It contains an austenitic-ledeburitic structure containing chrome and tungsten carbides. Resistant to high corrosion and abrasion, high impact stress and extreme temperatures shocks. The weld is machinable by hard metal tools.

Mechanical Properties

Tensile strength R_m	[MPa] / [N/mm ²]	900 - 1050
Max. operation temperature	[°C]	800
Hardness	[HRC]	30 - 35

Chemical Composition (Standard Values in %)

Co	Cr	Ni	C	Fe	Mo	Si	Mn
Base	27	2.5	0.25	≤ 3	5.0	1.0	1.0

Field of Applications (Samples)

Valve seats, flow control components. Turbine engine parts, exhaust valves. Steam and gas turbine blades. Surgical instruments and implants. Cutting tools, dies, and wear-resistant coatings. Bearing surfaces.

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

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