

TECHNICAL DATA

Standards

Material : correspond to Stellite 12

DIN EN 14700	T Z Ni1
DIN 8555	MF 22-50-CGTZ

General Properties

DSI M NiCr12/50F is a Nickel-based hard facing Ni-Si-Cr-Mo-B-alloyed Laser Welding Cored Wire. The essential characteristics correspond to the Cobalt-base alloys, especially the hardness, corrosion resistance, pitting (inner granular corrosion), heat and wear resistance and thermal shock constancy.

Mechanical Properties

Tensile strength R _m	[MPa] / [N/mm ²]	650 - 800
Max. operation temperature	[°C]	580 - 600
Hardness	[HRC]	50 - 54

Chemical Composition (Standard Values in %)

Ni	C	Cr	Si	B	Fe	Mo
Base	0.6	20.0	4.9	2.8	<5.0	2.5

Field of applications (Samples)

Fittings, chemical plant components, food industry, nuclear technology.
Oil and gas, petrochemical, extrusion screws.

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

