STELLOY Ni520-G

CLASSIFICATION

EN 14700: TNi4

DIN 8555¹: MSG 23-GF-200-CTZ

DESCRIPTION

- Nickel-based super-alloy flux-cored wire
- Weld metal is a precipitation hardened alloy designed to withstand impact, compression, oxidation, corrosion and heat up to 950°C
- Excellent thermal shock resistance
- Can be machined without previous heat treatment

APPLICATIONS

STELLOY Ni 520-G is designed in general to surface all parts undergoing mechanical stress combined with corrosion, thermal shocks and/or high temperatures

Examples

• High-speed forging hammers, hot drawing dies, etc.

TYPICAL ALL-WELD METAL ANALYSIS										
С	Mn	Si	Cr	Fe	Мо	Co	W	Ti	Al	Ni
0.04	0.10	0.70	14.00	2.00	6.00	12.00	1.20	3.50	2.00	Bal.
TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES										

Hardness:

As welded: 190 HB

	As welded. 1901IB	
	SHIELDING GAS	
EN ISO 14175:	I1 Ar	
	M12 Ar + 0.5% <co<sub>2 2.5 with or without helium</co<sub>	
	OPERATING CONDITIONS	

Diameter [mm]		Amperage [A]		Voltage [V]		Stick-out [mm]	
	Range	Optimum	Range	Optimum	Range	Optimum	
1.6	140 - 300	250	22 - 28	28	15 - 25	20	

¹ Former classification replaced by EN 14700

	Diameter [mm]		Amperage [A]		Voltage [V]		Stick-out [mm]
2.4		280 - 350	300	26 - 30	28	15 - 25	20

Recovery: 98 %

	WELDING POSITIONS
Flat, half up, half down	

STANDARD DIAMETERS (mn

1.6, 2.4 mm

Other diameters: please consult us

PACKAGING							
Diameter	< 2.4 mm		> 2.4 mm				
Standard packaging [EN ISO 544]	Spool: BS 300	Metal basket rim: B 450	Drum				
Weight	15 kg	25 kg	Up to 330 kg				