

COROLIT[®] 25

CLASSIFICATION:

DIN EN 14700 DIN 8555
T Z Co1 MF 20-300-CKTZ

GENERAL CHARACTERISTICS:

COROLIT 25 deposits a cobalt- based alloy with an austenitic structure. This alloy contains approximately 10,5% nickel for matrix stability during elevated temperature service. It is resistant to hot corrosion, impact, wear and extreme temperature shocks and oxidation. The alloy is machinable by hard faced tools. COROLIT 25 is used for gas turbine components, on steam and chemical valves and on equipment handling hot steel, such as tong bits, shear blades, pumps for high temperature liquids.

It is suitable for use at temperatures up to 900 °C.

APPLICATION:

Hot forging tools, aerospace industry, turbo charger buckets, parts subject to high operating temperatures in combination with all types of wear such as impact, pressure, corrosion, erosion.

TYPICAL ALL WELD METAL ANALYSIS (%):

C	Si	Mn	Cr	Ni	Co	W	Fe
0,12	0,8	1,0	20,0	10,5	bal.	15,0	< 3,0

TYPICAL ALL WELD METAL MECHANICAL PROPERTIES:

Hardness: 250 - 280 HB

PARAMETER:

Diameter	Voltage	Amps
1,2	20 - 24	150 - 200
1,6	22 - 26	180 - 240
2,0	25 - 27	220 - 260
2,4	25 - 27	260 - 300
2,8	26 - 28	280 - 340

FORMS OF DELIVERY:

Coil "BS 300" = 15 kg | Coil "BS 450" = 25 kg | Drums = 300 kg

G = gas shielded, SA = Submerged Arc