

COROLIT[®] 12

CLASSIFICATION:

DIN EN 14700 DIN 8555
T Co3 MF 20-50-CTZ

GENERAL CHARACTERISTICS:

Cobalt - base alloy with an austenitic structure with embedded chrome and tungsten carbides with high resistance to abrasion, temperature shocks and corrosion. The toughness and the hardness are between COROLIT 1 and COROLIT 6. It is more abrasion resistant than COROLIT 6 but more resistant to temperature shocks and tougher than COROLIT 1. This alloy is suitable for hardfacing cutting edges of long knives and other tools used in the wood, plastic, paper, carpet and chemical industries. A buffer layer with CORODUR 200 K is recommended. Due to possible cracks preheating to approx. 350°C is recommended.

APPLICATION:

Abrasion, erosion, corrosion, cavitation at high temperatures, pumps, extrusion screws, bearing surfaces, chemical industry, hot shear blades, valves.

TYPICAL ALL WELD METAL ANALYSIS (%):

C	Si	Mn	Cr	Co	W	Fe
1,4	1,0	0,8	29,0	bal.	8,0	< 3,0

TYPICAL ALL WELD METAL MECHANICAL PROPERTIES:

Hardness: 45 – 48 HRc

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