

Classifications

EN 14700	DIN 8555	ASME IIC SFA 5.21
T Co3	MF 20-GF-55-CTZ	ERC CoCr-C

Characteristics

Cobalt base alloy providing excellent resistance to metal-to-metal wear, oxidation and high stress abrasion wear, in corrosive environments at high temperature. For reduced levels of dilution and an improved weldability, we recommend using a pulsed MIG welding mode.

Microstructure: Cr and W carbides in an austenitic matrix

Machinability: Grinding only

Oxy-acetylene cutting: Cannot be flame cut

Deposit thickness: Depends upon application and procedure used

Shielding gas: Argon 98% + Oxygen 2% or Argon 100%

Field of use

Mill guides, palm nut oil extruder, plastic extrusion screws, mixer blades, scrapers, rubber mixer.

Typical analysis in %

C	Mn	Si	Cr	Co	W	Fe
2,3	0,8	1,6	26,5	balance	11,5	3,0

Typical mechanical properties

Hardness as welded: 54 HRC

Recommended welding parameters

Wire diameter [mm]	Amperage [A]	Voltage [V]	Stick-Out [mm]	Gas-Rate [L/min]
1,2	110-180	20-31	20 max.	12-15
1,6	150-250	20-31	20 max.	15-18