

Standards

TS EN 14700	: T Co3
EN 14700	: T Co3
DIN 8555	: MF 20-55-CTZ

**Chemical Composition of
Weld Metal % (Typical)**

C	Mn	Si	W	Fe	Cr	Co
2.4	0.4	0.7	11.0	<3.0	29.0	Rest

Mechanical Properties

Hardness
(As Welded) (HRC)
54 -56

Typical Base Material Grades

- Best used on wear pads, rolyary seal rings, pump sleeves and centerless grinder work rests.
- Thermal shock resistant, abrasion, erosion, corrosion, cavitation at high temperature, bearing surfaces, chemical industry, hot shear blades, valves

Features and Applications

- GeKaTec HARDCOR COBALT 1 deposits a cobalt-based alloy with an austenitic-ledeburitic structure
- This is the hardest of the standard cobalt-based alloys
- It has a high resistance to corrosion especially to reducing acids, extreme wear and temperature shocks
- The deposit is only machinable by grinding
- Shielding Gas: M13 (Ar+1%O₂)

Resistance Type and Level

Friction	High Temp.	Corrosive	Machining
██████████	██████████	██████████	██████████
Impact	Thermo Shock	Crack Resistance	
██████████	██████████	██████████	

Operating Data

Diameter (mm)	Welding Current (A)	Voltage (V)
1.60	180 - 300	26.0 - 32.0

Current Type

FCAW / D.C. (+)

Operating Data

Product Code	Diameter x Length (mm) / (inch)		Package Weight (Kg)
6031100365	1.60	1/16	15

Approvals: SEPRO