

Cert # 05-R0925

Cobalt No. 1 Bare Cobalt No. 1 Coated

AWS/SFA 5.13 RCoCr-C (Bare), ECoCr-C (Coated)

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DESCRIPTION

Cobalt No. 1 is a cobalt based alloy designed for applications that require extreme abrasion resistance at elevated temperatures, but where impact resistance is not a consideration. Cobalt No.1 has a higher carbon and Tungsten content than other cobalt alloys yielding a high volume of carbide in the microstructure. Weld deposit is not as "tough" as other cobalt alloys (#6,#21) and will stress relief crack check upon cooling in some cases. However, it is far superior in wear resistance and erosion.

APPLICATIONS

Mixer blades, extrusion dies, saw blades, rolling mill guides, pump impellers, gate valves, rubber mixer rotors

ALL WELD METAL DEPOSIT CHEMISTRY (Typical)

Carbon 2.50 Chromium 30.00 Tungsten 12.50 Cobalt Balance

HARDNESS (HRc)

One Layer 41-43 Two Layer 47-49

AVAILABLE SIZES

Bare: 1/8, 5/32, 3/16, 1/4, 5/16 Coated: 1/8, 5/32, 3/16, 1/4

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