

Flux-cored Wire Cobalt

Alloy: WWCobalt #12 Flux Cored Wire

Conforms to Certification: AWS A5.21 ASME SFA A5.21

Class: ERCCoCr-B

Alloy: ERCCoCr-B

AWS Chemical Composition Requirements

|               |                 |
|---------------|-----------------|
| C = 1.2 – 2.0 | Mo = 1.0 max    |
| Mn = 2.0 max  | Fe = 5.0 max    |
| Si = 2.0 max  | W = 7.0 – 10.0  |
| Cr = 25 - 32  | Co = Remainder  |
| Ni = 3.0 max  | Other = 1.0 max |

Description

Cobalt #12 is a tubular fabricated wire version of the cobalt alloy produces a high hardness cobalt-chromium deposit for high temperature applications with good abrasive wear associated with corrosion. Chromium carbides contained in deposit provides excellent resistance to many forms of chemical and mechanical degradation, including galling. It bonds well with all weldable steels including stainless.

Deposited Chemical Composition % (Typical)

|           |              |
|-----------|--------------|
| C = 1.4   | Mo = 0.10    |
| Mn = 0.9  | Fe = 1.9     |
| Si = 1.1  | W = 8.3      |
| Cr = 27.3 | Co = Balance |
| Ni = 2.2  |              |

