

PRODUCT

DATA SHEET

Nickel Alloy Wire

Weld Process: GMAW & GTAW

Alloy: ERNiCrMo-8 (Alloy G2) Class: ERNiCrMo-8 Conforms to Certification: AWS A5.14 / ASME SFA 5.14

Alloy: DMG-2

| AWS Chemical Composition Requirements | | C = 0.01 | Cr = 24.75 | Ni = 50.5 |
|---------------------------------------|----------------------------|--|------------|--------------|
| C = 0.03 max | Cu = 0.7 - 1.2 | Cu = 0.90 | Mo = 6.1 | Fe = Balance |
| Mn = 1.0 max | Ni = 47.0 - 52.0 | Si = 0.70 | | |
| Fe = Remainder | Ti = 0.7 - 1.5 | | | |
| P = 0.03 max | Cr = 23.0 - 26.0 | Deposited All Weld Metal Properties % (AW) | | |
| S = 0.03 max | Mo = 5.0 - 7.0 | Tensile Strength91,000pElongation27% | | 1 |
| Si = 1.0 max | Other = 0.50 max | Lionguion | _,,,, | |

Deposited Chemical Composition % (Typical)

Deposited Charpy-V-Notch Impact Properties % Not applicable

Application

ERNiCrMo-8 is used for welding nickel-chromium-molybdenum base materials to itself, steel and other nickel base alloys, and for cladding steel with NI-CR-MO weld materials.

Recommended Welding Parameters for TIG and MIG Welding of Nickel Alloys

| Process | Diameter of Wire | Voltage (V) | Amperage (A) | Gas |
|---------|------------------|-------------|--------------|------------------------|
| Tig | .035 inches x 36 | 12 -15 | 60 -90 | 100% Argon |
| | .045 inches x 36 | 13 -16 | 80 - 110 | 100% Argon |
| | 1/16 inches x 36 | 14 - 18 | 90 - 130 | 100% Argon |
| | 3/32 inches x 36 | 15 - 20 | 120 -175 | 100% Argon |
| | 1/8 inches x 36 | 15 - 20 | 150 - 220 | 100% Argon |
| | | | | |
| MIG | .035 inches | 26 - 29 | 150 - 190 | 75% Argon + 25% Helium |
| | .045 inches | 28 - 32 | 180 - 220 | 75% Argon + 25% Helium |



If additional information is needed Contact Weldwire Company, Inc. 800-523-1266

1/16 inches 29 – 33 200 - 250 75% Argon + 25% Helium

Note: Other shielding Gases may be used for Mig and Tig welding. Shielding gases are chosen taking Quality, cost, and Operability into consideration.



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