

STRONG 80S-Ni2

CLASSIFICATION: AWS SFA 5.28 ER 80S-Ni2

Copper Coated Solid Wire For MIG & TIG Welding



CHARACTERISTICS

STRONG 80S-Ni2 is a low alloy steel wire designed for welding low alloy steels with 2.5% Ni content. This is a fine grained welding wire for high impact at low temperature applications (-60°C). Nickel content increases atmospheric weathering resistance and improves the balance between weld metal and base metal.

APPLICATIONS

STRONG 80S-Ni2 is suitable for welding fine grained and Nickel alloy steels.

Typical applications include storage tanks for liquefied gases, offshore platforms, pressure vessels, and pipelines.

TYPICAL WIRE CHEMISTRY (%)

| C | Mn | Si | P | S | Cu | Ni | Cr | Mo | V |
|-------------|-------------|---------------|--------------|--------------|-------------|---------------|-------------|-------------|-------------|
| 0.12 MAX | 1.25 MAX | 0.40- 0.80 | 0.025 MAX | 0.025 MAX | 0.35 MAX | 2.00- 2.75 | 0.15 MAX | 0.35 MAX | 0.05 MAX |

ALL WELD MECHANICAL PROPERTIES

| Required as per AWS 5.28 | Y.S. | U.T.S. | ELONGATION | IMPACT VALUE AT -60°C |
|--------------------------------|------|--------|------------|-----------------------|
| | MPa | MPa | % | JOULE |
| | ≥470 | ≥550 | ≥24 | ≥27 |
| Typical | 540 | 625 | 28 | 75 |

PACKAGING SPECIFICATIONS - MIG

DIA SIZE 0.80MM / 1.00MM / 1.20MM / 1.60MM / 2.00MM

SPOOL WEIGHT 1KGS / 5KGS / 12.5KGS / 15KGS / 17.5KGS

DRUM WEIGHT 100KGS / 150KGS / 250KGS / 300KGS / 350KGS

PACKAGING SPECIFICATIONS - TIG

DIA SIZE 1.60MM / 2.00MM / 2.40MM / 3.15MM / 4.00MM

WEIGHT 5KGS / 20KGS