

STRONG 80S-Ni1

CLASSIFICATION: AWS SFA 5.28 ER 80S-Ni1



Copper Coated Solid Wire For MIG & TIG Welding

CHARACTERISTICS

STRONG 80S-Ni1 is a low alloy steel wire designed for welding low alloy steels with 1% Ni content. This is a fine grained welding wire for high impact at low temperature applications (-45°C). Nickel content increases atmospheric weathering resistance and improves the balance between weld metal and base metal.

APPLICATIONS

STRONG 80S-Ni1 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	1.25	0.40-	0.025	0.025	0.35	0.80-	0.15	0.35	0.05
MAX	MAX	0.80	MAX	MAX	MAX	1.10	MAX	MAX	MAX

ALL WELD MECHANICAL PROPERTIES

Required as per AWS 5.28	Y.S.	U.T.S.	ELONGATION	IMPACT VALUE AT -45°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