

# STRONG EM3

CLASSIFICATION: AWS SFA 5.23 EM3

SAW Wire for Medium to High Strength Steels



## CHARACTERISTICS & APPLICATIONS

STRONG EM3 is a copper-coated low alloy submerged arc welding (SAW) wire engineered for applications requiring higher strength and improved toughness compared to EM2 grade wires. With elevated manganese content, EM3 delivers superior mechanical properties and excellent weld integrity when paired with appropriate SAW fluxes. It is particularly suited for critical structural applications where enhanced performance and reliability are essential.

## TYPICAL WIRE CHEMISTRY (%)

C	Mn	Si	S	P	Cr	Ni	Mo	Cu	V	Ti	Zr	Al
0.10	1.40-	0.20-	0.015	0.010	0.55	1.90-	0.25-	0.25	0.04	0.10	0.10	0.10
MAX	1.80	0.60	MAX	MAX	MAX	2.60	0.65	MAX	MAX	MAX	MAX	MAX

## PACKAGING SPECIFICATIONS - SAW SPOOL PACK

**DIA SIZE** 1.60MM / 2.00MM / 2.40MM / 3.15MM / 4.00MM / 5.00MM

**SPOOL WEIGHT** 25KGS / 30KGS

## PACKAGING SPECIFICATIONS - DRUM PACK

**DIA SIZE** 1.60MM / 2.00MM / 2.40MM / 3.15MM / 4.00MM / 5.00MM

**WEIGHT** 150KGS / 250KGS / 300KGS / 350KGS / 500KGS

## RECOMMENDED COMBINATION SAW FLUX

**WIRE SIZE 2.00MM AND ABOVE**

**STRONG FLUX 62G / STRONG FLUX 68X**