



Nexus SG3

Copper coated solid mild steel wire for Semi-automatic and Robotic MIG/MAG welding applications

Mild steel MIG/MAG wires for welding mild and medium tensile Structural steels and plates using CO₂ and Mixed gases. This grade offers improved arc stability at currents >300amps resulting in superior bead shape and low levels of spatter.

International Standards

BS EN 440:1995	AWS A5.18- 2001
G4Si1	ER 70S - 6

Typical All-Weld Metal Analysis (wt%)

C	Si	Mn	S	P
0.06	0.67	1.19	0.014	0.014

Typical All-Weld Metal Mechanical Properties

Yield Strength N/mm²	Tensile Strength N/mm²	Elongation %	Impact Strength -20°C (J)
467	557	23	130

Welding Positions

All Positions including vertical down
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Materials

All mild and medium carbon steels with a toughness requirements down to -20°C
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Packaging

Size mm	0.8	1.0	1.2	1.6
Plastic spools 15 kg	✓	✓	✓	✓
Wire basket 15 kg	-	✓	✓	✓
250 kg Round Bulk Packs	✓	✓	✓	✓
550 kg Square Bulk Packs	✓	✓	✓	✓

Additional Information

CE Certified	Constructional products directive (CPD)
Certification	BS EN 10204:2004 Type 2.2
Material safety data sheet	MSDS 01
BOC Shielding Gas MIG	Argoshield Light (<3 mm)/Universal (3-10 mm)/Heavy (>10 mm)
Related Nexus Products	Nexus E6013/E7024 and Nexus A15/A18