

## Welding Wires For Mild and Low Alloyed Steels

Classification

**AWS** 

: ER 70S-6 A5.18

DIN 8559 : SG 2 : G3 Si 1 EN 440

## **Description and Applications**

SG 2 is a copper coated mild steel solid wire electrode suited for universal application in tank, truck bodies farm equipment, structural and carbon steel fabrication. Also due to its high current carrying capacity it is recommended for light gauge and heavy weldments in general shop fabrication where moderately scaled and rusty plates are frequently welded. It provides largely spatter free metal transfer and excellent weldability with powerful desoxidizers for Argon rich Ar/Co2 mixtures and even for CO2.

Typical Chemical Analysis (%)									
C	Mn	Si	P	S	Cu	Mo			
0.07-0.10	1.4-1.6	0.7-1.0 max	max 0.025	max	max	_			
				0.025	0.30				

Typical Mechanical Properties (%)							
Yield	Tensile	Impact	Elongation				
Strength	Strength	Value	(%)				
$(N/mm^2)$	$(N/mm^2)$	(ISO-V)					
450	550	80 J (-20°C)	28				

Current Range and Polarity						
$\emptyset$ (mm)	Ø(in)	Amperage	Volt			
0.80	0.030	60-180	18-24			
1.00	0.040	80-290	18-30			
1.20	0.052	120-380	18-35			
1.60	1/16	220-480	28-40			

**Welding Positions** 

















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