# **AS MIG SG2**





## MIG/MAG Welding Wire for Mild Steels

#### Classification

ISO 14341-A: G 42 3 C G3Si1 / G 42 3 M G3Si1

AWS A5.18 : ER70S-6

#### **General Description**

AS SG2 is a copper coated gas metal arc welding wire in 15 kg spools or 250 kg drums. It is particularly designed for semi-automatic and full-automatic GMAW applications. Working temperature can range between – 50 to 450°C.

CO<sub>2</sub> or 80 % Ar- 20 % CO<sub>2</sub> are used for gas shielding.

### Chemical Composition (w%), Typical, Wire

С	Si	Mn
0.08	0.85	1.50
0.06 *	0.55 *	1.10 3

<sup>\*)</sup> Typical weld metal composition (CO<sub>2</sub> gas shielding)

#### Mechanical Properties, Typical, All Weld Metal

Yield Strength : 440 N/mm² Tensile Strength : 540 N/mm² Elongation (L=5d) : 30 % Impact (ISO-V) : 60 J  $(-30^{\circ}\text{C})$ 

#### **Approvals**

CE, DB, GOST, NAKS, SEPRO, TSE, TÜV

Shielding gas: CO<sub>2</sub>

ABS	BV	DNV	GL	LRS	RINA	RMRS	TL
3SA,3YSA	3YM	III YMS	3YS	3S 3YS H15	3Y42	3Y	3YMS

Shielding gas: Ar+CO<sub>2</sub>

ABS DNV GL TL
3YSA III YMS 3YS 3YMS

#### Shielding Gases (ISO 14175 / EN 439)

MAG : M21 - Ar + 5-25%  $CO_2$ C1 -  $CO_2$  (100%)

## **Packing and Diameter Informations**

Diameter	8.0	1.0	1.2	1.6	2.0	2.4	3.2	Spool Weight	Drum Weight
MIG/MAG Wire	Х	Χ	Χ	Χ	-	-	-	15 kg	250 kg



Liability: All information in this data sheet is based on the best available knowledge, is subject to change without notice and can only be considered as suitable for general guidance. Fumes: Consult information on Welding Safety Sheet, available upon request.

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#### Materials to be Welded

DIN EN

**General Structural** St 33, St 34, St 37, St 44, St 44-2, St 44-3, St 52, St 52-3 S185, S235, S275, S355

 Steels
 St 37-4, St 44-4, St 52-4
 P235TR2 - P355T2

St 50-2, St 60-2 E295, E335 C 10 - C 35 ; Ck 10 - Ck 35 C10 - C35

 Fine Grained Steels
 StE 255 - StE 420
 S255N - S420N

 WStE 255 - WStE 355
 P255NH - P355NH

 Pipe Materials
 StE 210-7 - StE 360-7
 L210 - L360NB

 StE 200.7 TM
 StE 260.7 TM
 L200MB

StE 290-7 TM - StE 360-7 TM L290MB - L360MB X42, X46, X52, X60 (API 5LX) –

 Boiler and
 17 Mn 4, 19 Mn 6
 P295GH, P355GH

 Pressure Vessel Steels
 HI, HII
 P235GH, P265GH

Elevated Temperature St 35-8, St 45-8 P235G1TH - P255G1TH

Steels
Ship Plates A, B, C, D, E -

AH32 - EH36 – GE200, GE240, GE260

**Welding Parameters / Welding Positions** 

Current Type and Polarity : DC (+)

Arc	Diameter	Current	Voltage
Type	[ mm ]	[ A ]	[V]
Short Arc	0.8	60 - 140	18 - 22
Short Arc	1.0	80 - 175	18 - 24
Short Arc	1.2	120 - 200	18 - 27
Sprey Arc	1.2	150 - 280	25 - 40
Sprey Arc	1.6	225 - 480	28 - 40













1G/PA 2

2F/PB

2G/PC

3G/PF

3G/PG