ER 70S-3 (SG1)

Mild Steel WIRE/GTAW

Standards

EN/ISO-Standard - 636-A **EN/ISO-Classification -** W 42 4 2Si

AWS-Standard - A5.18 **AWS-Classification -** ER 70S-3

Features and Applications

- A copper coated wire designed for welding carbon and carbonmanganese steels.
- Suitable for single pass or multipass welding.
- Ideal for joining thin sheet metals.
- Typically used in general construction works, shipbuilding, bridges, tanks, boilers, earthworks etc.
- Green wire is produced using virgin raw materials sourced from specialised steel mills, which ensures consistent reliability and quality.
- Test Certificates can be found online @wilkinsonstar247.com



Typical Base Materials

S185, S235, S275, S355 - Grade A, B, D, AH32 to DH36 - L210, L240, L290, L360, L240NB, L290NB, L360NB, L360QB, L240MB, L290MB, L360MB, L415MB - X42, X46, X52, X60 - P235T1, P235T2, P275T1 - P275T2, P355N - P235GH, P265GH, P295GH, P355GH - S275, S355, S420, S275M, S275ML, S355M, S355ML, S420M, S420ML*

* Illustrative, not exhaustive list

Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases

Polarity

EN ISO 14175 - TIG: I1 (Argon)

DC (-)

Mechanical Properties (Typical)

Tensile Strength (N/mm²)	Yield Strength (N/mm²)	Elongation (%)	Impact Strength (J)	Test Temperature	
530	430	24	>80	-40°C	

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.

Chemical Composition % (Typical)

C %	Si %	Mn %	P %	S %	Cu %a	Cr%	Ni %	Mo %	AI %	V %	Zr+Ti%
0.070	0.65	1.15	<0.020	<0.020	<0.25	<0.15	<0.15	< 0.050	<0.020	<0.030	<0.15

^a (includes copper coating)

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
3010300102	1.60	1000	5	Cardboard Tube
3010300104	2.40	1000	5	Cardboard Tube
3010300106	3.20	1000	5	Cardboard Tube

Liability: Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.





