Standards

EN/ISO-Standard - 14341-A **AWS-Standard -** A5.18 **EN/ISO-Classification -** G 42 3 C1 / G 46 4 M21 4Si1 **AWS-Classification -** ER 70S-6

Features and Applications

- A copper coated solid wire suitable for single pass or multipass welding of unalloyed and low-alloyed carbon-manganese steels.
- The higher Si-Mn content increases the weld metal strength and leaves a good bead appearance.
- Designed for semi-automatic and full-automatic GMAW applications.
- Good mechanical properties at sub-zero temperatures down to -40°C.
- Vacuum-sealed aluminium foil packaging to prevent moisture absorption.
- Precision layer wound for superior wire feeding characteristics.
- Typically used on boilers, industrial machinery, bridges, shipbuilding, automotive, rail, structural and engineering fabrications.
- 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, S460, P460, S460ML*

Welding Positions

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

Shielding Gases	Polarity		
EN ISO 14175 - C1, M21	DC (+)		

Welding Parameters

Ø mm	0.80	1.00	1.20
Current (A)	60-200	80-300	120-380
Voltage (V)	18-24	18-32	18-34

Mechanical Properties (Typical) - C1

Tensile Strength	Yield Strength	Elongation	Impact	Test
(N/mm²)	(N/mm²)	(%)	Strength (J)	Temperature
570	460	30	58	-30°C

Mechanical Properties (Typical) - M21

Tensile Strength	Yield Strength	Elongation	Impact	Test
(N/mm²)	(N/mm²)	(%)	Strength (J)	Temperature
590	490	28	88	-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 %
0.08	0.95	1.70	<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 Weight (Kg)	Package Type	Pallet Quantity
3010301508	0.80	15	D300 PLW	72
3010301510	1.00	15	D300 PLW	72
3010301512	1.20	15	D300 PLW	72

Drums also available.

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^{*} Illustrative, not exhaustive list