

UltraMag® SG3

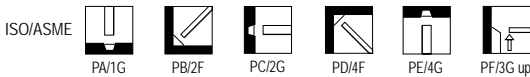
CLASSIFICATION

AWS A5.18/A5.18M - ER70S-6
EN ISO 14341-A - G 46 5 M 4Si1 / G 46 3 C 4Si1

GENERAL DESCRIPTION

Coppered solid wire for semi-automatic and automatic welding applications
Good feedability, consistent welding performance
Very good weldability, stable arc, and low spatter
High productivity

WELDING POSITIONS



SHIELDING GASES (ACC. ISO 14175)

M21 Mixed gas Ar+ >15-25% CO₂
C1 Active gas 100% CO₂

APPROVALS

ABS	BV	DNV	GL	LR	CE	TUV
+	+	+	+	+	+	+

CHEMICAL COMPOSITION (W%) TYPICAL WIRE

C	Mn	Si
0.08	1.70	0.85

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Impact ISO-V(J)	
						-40°C	-50°C
Typical values	M21	AW	490	590	27		90
	C1		460	560	25	70	

MATERIALS TO BE WELDED

Steel grades	Standard	Type
General structural steel	EN 10025	S185, S235, S275, S355
Ship plates	ASTM A131	Grade A, B, D, AH32 to DH36
Cast steel	EN 10213-2	GP240R
Pipe material	EN 10208-1	L210, L240, L290, L360
	EN 10208-2	L240NB, L290NB, L360NB, L360QB, L240MB, L290MB, L360MB, L415MB, L415NB
	API 5LX	X42, X46, X52, X60
	EN 10216-1	P235T1, P235T2, P275T1
	EN 10217-1	P275T2, P355N
Boiler & pressure vessel steel	EN 10028-2	P235GH, P265GH, P295GH, P355GH
Fine grained steel	EN 10025 part 3	S275, S355, S420, S460
	EN 10025 part 4	S275M, S275ML, S355M, S355ML, S420M, S420ML, S460, P460, S460ML

PACKAGING AND AVAILABLE SIZES

Diameter (mm)	0.8	1.0	1.2	1.6
Unit :				
15 Kg spool B300	X	X	X	X
15 Kg spool BS300	X	X	X	X
15 kg spool S300	X	X	X	X
250 kg Accutrak® Drum	X	X	X	
500 kg Accutrak® Drum	X	X	X	X
Other sizes and packaging on request				

UltraMag® SG3: rev. EN26

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Fumes: Material Safety Data Sheets (MSDS) are available on our website.