

UltraMag® SG3

CLASSIFICATION

AWS A5.18	ER70S-6	A-Nr	1	Mat-Nr	1.5130
EN ISO 14341-A	G46 3 C 4S11 / G46 5 M 4S11	F-Nr	6		
		9606 FM	1		

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 (ISO/ASME)



PA/1G



PB/2F



PC/2G



PD/4F



PE/4G



PF/3Gu



PG/3Gd

SHIELDING GASES (ACC. ISO 14175)

M21	Mixed gas Ar+ >15-25% CO ₂
C1	Active gas 100% CO ₂

APPROVALS

ABS	BV	DNV/GL	DB	LRS	RINA	CE	TÜV
+	+	+	+	+	+	+	+

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

EXAMPLES OF MATERIALS TO BE WELDED

Steel grades	Standard	Type
General structural steels	EN 10025	S185, S235, S275, S355
Ship plates	ASTM A131	Grade A, B, D, AH32 to DH36
Cast steels	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 steels	EN 10028-2	P235GH, P265GH, P295GH, P355GH
Fine grained steels	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
16 Kg spool B300	X	X	X	X
15 kg spool S300	X	X	X	
250 kg Accutrak® Drum	X	X	X	
500 kg Accutrak® Drum	X	X	X	X

Ultramag® SG3.rev. C-EN30-27/02/19

Other sizes and packaging on request



All information in this data sheet is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.
[Download Safety datasheets \(SDS\)](#)