

CLASSIFICATION

AWS A5.18	ER70S-6	A-Nr	1	Mat-Nr	1.5130
EN ISO 14341-A	G46 3 C 4Si1 / G50 5 M 4Si1	F-Nr	6		
		9606 FM	1		

GENERAL DESCRIPTION

Solid wire with increased Mn for semiautomatic and robotic applications
MicroGuard™ Ultra provides superior feeding and arc stability
Very consistent welding performance

Optimal bead profile appearance
Minimal spatters
Available in spools and Accutrak®

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	LR	BV	DNV-GL	TUV	DB	CE	CWB
+	+	+	+	+	+	+	+

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)		
						-20°C	-40°C	-50°C
Typical values	M21	AW	500	650	26	80	80	70
	C1	AW	490	620	30	60	50	

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 DH 36
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
	EN 10028-2	P235GH, P265GH, P295GH, P355GH
Boiler & pressure vessel steels		
Fine grained steels	EN 10025 part 3	S275, S355, S420
	EN 10025 part 4	S275M, S275ML, S355M, S355ML, S420M, S420ML

PACKAGING AND AVAILABLE SIZES

Diameter (mm)	1.0	1.2	1.6
16 kg spool B300	X	X	X
16 kg spool B5300	X	X	
15 kg spool S300	X	X	
250 kg Accutrak® Drum	X	X	X
500 kg Accutrak® Drum	X	X	X

Supramig® Ultra: rev. C-EN30-20/11/20

Other sizes and packaging on request