

SupraMig® HD

CLASSIFICATION

AWS A5.18/A5.18M - ER70S-6
EN ISO 14341-A - G 46 4 M 3Si1 / G 42 3 C 3Si1

GENERAL DESCRIPTION

Solid wire for welding of structural steels
Excellent feedability and very consistent welding performance
Self releasing silicate islands

Tight and stable arc with extremely low spatter
Deep root penetration and improved fatigue life
Ultimate GMAW wire for heavy duty high deposition applications

WELDING POSITIONS

ISO/ASME



PA/1G



PB/2F



PC/2G



PD/4F



PE/4G



PF/3G up

SHIELDING GASES (ACC. ISO 14175)

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

APPROVALS

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

CHEMICAL COMPOSITION (W%) TYPICAL WIRE

C	Mn	Si
0.08	1.40	0.85

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

Typical values	Shielding gas	Condition	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Impact ISO-V(J)	
						-30°C	-40°C
	M21	AW	502	574	28	71	102
	C1	AW	486	570	29		

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, L360OB, 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 steel	EN 10025 part 3	S275, S355, S420
	EN 10025 part 4	S275M, S275ML, S355M, S355ML, S420M, S420ML, S460

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

Supramig® HD rev. EN04