Stick Electrode for High Tensile Strength Steel

KL-918

Classification

AWS A 5.5/A 5.5M E9018-G/E6218-G

JIS Z3211 E6218-N1M1 EN 18275-A E55 3 Z B 3 2

Type of coating: Iron powder low hydrogen type GB T5117 E6018-G

Applications and Features

- (1) Suitable for welding 620N/mm² grade steel.
- (2) Stable arc, good slag removal, good slag fluids, good mechanical properties and crack resistance of weld metal.
- (3) Applicable for pressure vessels/pipe, bridges, ship building and offshore structure.

Welding position



Welding Instruction

Please refer to Appendix A.

Typical Chemical Composition of Weld Metal (wt%)

С	Si	Mn	P	S	Ni	Мо
0.08	0.55	1.30	0.012	0.008	0.52	0.25

Typical Mechanical Properties of Weld Metal

Tensile Strength Yield Strength		Elongation	Charpy V-Notch	
N/mm²	N/mm²	%	${\mathbb C}$	J
650	540	29	0	169
			-29	95

Size and Suggested Operating Range (AC or DC+)

Diameter (mm)		3.2	4.0	5.0	6.0
Current (A)	F/H-Fillet	90~130	130~180	180~240	230~300
	V-up/OH	80~120	110~160	150~200	-