Stick Electrode for Heat Resistant Steel							
	Classification						
VI 010D0	AWS	A 5.5	E8018-B2				
KL-818B2	JIS	Z3223	E5518-1CM				
	EN	3580-A	E CrMo1 B				
Type of coating: Iron powder low hydrogen type	GB	T 5118	E5518-B2				

## **Applications and Features**

- (1) KL-818B2 is suitable for welding Cr-Mo alloy steel.
- (2) It provides high deposition rate and good weldability.
- (3) Weld metal contains 1.25%Cr-0.5%Mo.
- (4) It is ideal for welding in high pressure steel pipes, heat exchanger steel pipes, rolled, cast and forged steel, such as ASTM A387Gr.11 and JIS SCMV3.

## Welding Position

All Positions

## Welding Instruction

- (1) Clean up the contaminations on the steel.
- (2) Dry the electrodes at 350~400°C for 60 minutes before welding.
- (3) Keep arc as short as possible. Take the back step method to prevent porosity at arc start and re-start. (Please refer to Appendix A)
- (4) Preheat and interpass temperature: 160~190°C, PWHT: 675~705°C.

Typical C	Typical Chemical Composition of Weld Metal (wt %)								
С	Si	Mn	Р	S	Cr	Мо			
0.080	0.68	0.75	0.013	0.008	1.28	0.53			
Typical Mechanical Properties of Weld Metal (PWHT:690°Cx1Hr)									
Tensile Str	ength	Yield Strength	Elongation		Charpy	Charpy V-Notch			
N/mm <sup>2</sup> (kgf/	/mm²)	N/mm <sup>2</sup> (kgf/mm <sup>2</sup> )	%	)	°C	J (kgf -m)			
640(65.	3)	560(57.1)	26	3	0	—			

## Size and Suggested Operating Range (AC or DC+)

Diameter (m	m) x Length(mm)	3.2x350	4.0x400	5.0x400
Amp	F	90~140	140~190	180~240
	V-up/OH	80~120	120~160	_

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