Stick Electrode for Heat Resistant Steel

	Classification		
VC FOO		A 5.5	E8016-B6
KS-502	JIS	Z3223	E5518-5CM
	EN	3580-A	E CrMo5 B
Type of coating: Low hydrogen type	GB	T 5118	E5518-G

Applications and Features

- (1) It is suitable for welding Cr-Mo heat resistant steel.
- (2) Weld metal contains 5%Cr-0.5%Mo.
- (3) It is ideal for welding steels used in petro-chemical plants, such as ASTM A387Gr.5 and JIS SCMV6.

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: 177~232°C, PWHT: 725~755°C.

Typical Chemical Composition of Weld Metal (wt %)

С	Si	Mn	Р	S	Cr	Мо
0.052	0.29	0.47	0.015	0.014	5.57	0.57

Typical Mechanical Properties of Weld Metal (PWHT:745°Cx1Hr)

	Tensile Strength	Yield Strength	Elongation	Charpy V-Notch	
	N/mm ² (kgf/mm ²)	N/mm ² (kgf/mm ²)	%	°C	J (kgf -m)
ĺ	E00(E0.0)	410(42.0)	25	0	_
	580(59.0)	410(42.0)	25	-29	_

Size and Suggested Operating Range (AC or DC+)

		ter (mm) x gth(mm)	3.2x350	4.0x400	5.0x400
	Amp	F	80~120	100~170	160~230
	Amp	V-up/OH	70~110	100~150	_