Stick Electrode for Heat Resistant Steel					
	Classification				
VI 716A1	AWS	A 5.5	E7016-A1		
KL-716A1	JIS	Z3223	E4916-1M3		
	EN	3580-A	E Mo B		
Type of coating: Low hydrogen type	GB	T 5118	E5016-A1		

Applications and Features

(1) KL-716A1 is suitable for welding 490 N/mm² grade steel with 0.5% Mo.

(2) Ideal for welding steel pipes, heat exchanger pipes, cast steel, rolled and forged steel.

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: 100~200°C, PWHT: 600~635°C.

Typical Chemical Composition of Weld Metal (wt %)

С	Si	Mn	Р	S	Мо
0.070	0.50	0.70	0.013	0.012	0.54

Typical Mechanical Properties of Weld Metal (PWHT:620°Cx1Hr)

Tensile Strength	Yield Strength	Elongation	Charp	Charpy V-Notch	
N/mm ² (kgf/mm ²)	N/mm ² (kgf/mm ²)	%	°C	J (kgf -m)	
570(58.1) 490(50.0)	490(50.0)	30	0	_	
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Size and Suggested Operating Range (AC or DC+)

Diameter (mr	m) x Length(mm)	3.2x350	4.0x400	5.0x400
Amp	F	140~190	180~240	230~300
	V-up/OH	120~160	_	-