Stick Electrode for Atmospheric Corrosion Resistant Steel				
	Classification			
		A 5.5	E8018-W2	
NAC-OIOW	JIS	Z3214	E5518-NCC1	
	EN	2560-A	E5518-NCC1	
Type of coating: Iron powder low hydrogen type	GB	T 5118	E5518-W	

Applications and Features

- (1) It is suitable for 540N/mm² grade weather resistant steel.
- (2) It provides good weldability, mechanical properties, X-ray quality welds and crack resistance.
- (3) Weld metal has great weather resistance due to Cu, Ni and Cr contents.
- (4) It is ideal for welding in ASTM A588, A242, JIS G3114 SAM steel and bare steel structures.

Welding Position

All Positions

Welding Instruction

- (1) Clean up the contaminations on the steel before welding.
- (2) Dry the electrodes at 300~350°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) The preheat temperature for thick plate (thickness > 25mm) or rigid joints is 90~120°C.

Typical Chemical Composition of Weld Metal (wt %)

С	Si	Mn	Р	S	Cu	Cr	Ni
0.060	0.54	0.84	0.014	0.009	0.48	0.52	0.61

Typical Mechanical Properties of Weld Metal

Tensile Strength N/mm ² (kgf/mm ²)	Yield Strength N/mm ² (kgf/mm ²)	Elongation %	Charpy V-Notch	
			°C	J (kgf -m)
630(64.2)	550(56.1)	27	-5	104(10.6)
			-18	95(9.7)

Size and Suggested Operating Range (AC or DC+)

Diameter (mm) x Length(mm)		2.6x300	3.2x350	4.0x400	5.0x400
	Н	70~100	110~150	160~200	180~230
Amp	V-up/OH	60~90	90~130	130~170	140~180