Stick Electrode for Nickel and Nickel-Based Alloy

KNi-60-7

Classification

AWS A5.11 ENiCrMo-7 JIS Z3224 E Ni 6455

EN 14172 E Ni 6455

Type of coating: Low hydrogen

GB T 13814 E Ni 6455

Applications and Features

- (1) KNi-60-7 is designed for welding in DC with good weldability.
- (2) The weld metal has superior corrosion resistance to salt water, sulfuric acid, acetic acid and caustic soda.
- (3) It is ideal for welding valves, pumps accessories and pro-chemical facilities.

Welding Instruction

- (1) Clean the surface of the base metal before welding.
- (2) It is difficult for welding in V & O-H positions, so F welding is recommended.
- (3) Baking temperature should be between 350~400°C during 30~60 minutes before welding. No PWHT is required for base metal.
- (4) To avoid weave arc, make a short arc in low current.
- (5) To avoid porosity, use the back step method for welding. (Please refer to Appendix A)

Typical Chemical Composition of Weld Metal (wt %)

С	Si	Mn	Р	S	Ni	Ti	Fe	Cu
0.040	0.68	3.18	0.009	0.008	66.50	0.18	0.51	Rem.

Typical Mechanical Properties of Weld Metal

	Tensile Strength	Yield Strength	Elongation	Charpy V-Notch		
	N/mm ² (kgf/mm ²)	N/mm² (kgf/mm²)	%	°C	J (Kgf-m)	
Ī	500(51.0)	310(31.6)	43	-196	100(10.2)	

Size and Suggested Operating Range (DC+)

	er (mm) x h(mm)	2.6x300	3.2x350	4.0x350	4.8x350
۸mn	Н	60~85	70~115	95~145	140~180
Amp	V/O-H	55~85	65~110	85~135	_