Applications

TYPE : Basic

S-8018.C3 can be used for welding of high tensile steel and 1%Ni steel used in machinery, pressure vessels, storage tanks for low temperature.

Characteristics on Usage

S-8018.C3

- · S-8018.C3 is an iron powder low hydrogen type electrode for all position welding.
- · Good toughness of weld metal at low temperature.
- · As its deposition rate is extremely high, working hours can be shortened.
- · X-ray performance and usability are good.

Notes on Usage

- ① Dry the electrodes at 350~400°C(662~752°F) for 60 minutes before use.
- ② Adopt back step method or strike the arc on a small steel plate prepared for this particular purpose, because arc striking on the base metal is in danger of initiating cracking.
- ③ Preheat at 80~100℃(176~212°F) before use. The temperature to be applied varies in accordance with plate thickness and steel kind.

AC or DC +

Welding Position

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1G	2F	3G	4G
(PA)	(PB)	(PF)	(PE)

Typical Chemical Composition of All-Weld Met						
С	Si	Mn	Р	S	Ni	
0.07	0.59	1.00	0.020	0.009	0.94	

Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (°F)	J (ft · Ibs)
540 (78,400)	619 (89,900)	30.8	-40 (-40)	76 (56)

Approval		I	I Packing				
			Packet Carton	5 kg (11 lbs) 5 kg (11 lbs)×4 : 20kg(44 lbs)			
Sizes Available and Recommended Currents (Amp.)							
Size mm (in)	2 6 (3/32)	3 2 (1/8)	40(5/32)	5.0 (3/16)	6.0 (15/64)	

Size mm (in)	2.6 (3/32)	3.2 (1/8)	4.0 (5/32)	5.0 (3/16)	6.0 (15/64)	
Length mm(in)	350 (14)	350 (14)	400 (16)	400 (16)	450 (18)	
F	55~90	90~130	130~190	190~240	250~300	
V-up, OH	50~80	80~120	120~170	-	-	
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