SC-81Ni2M

AWS A5.29/ ASME SFA5.29 E81T1-Ni2M JIS Z3313 T55 6 T1-1 M A-N5 H5 EN ISO 17632-A T46 6 2Ni P M 2 H5

Applications

Offshore, Shipbuilding, Bridge construction machinery and vehicles.

Characteristics on Usage

① SC-81Ni2M is a titania type flux cored wire for all position welding.

- (2) It provides excellent notch toughness at low temperature.
- ③ It provides an exceptionally smooth and stable arc with a fast freezing slag system.

Notes on Usage

1G

2F

(PA) (PB) (PF) (PE)

- ① Proper preheating(50~150°C)(122~302°F) and interpass temperature must be used in order to release hydrogen which may cause cracking in weld metal when electoredes are used for medium and heavy plates.
- ② One-side welding defects such as hot cracking may occur with wrong welding parameter such as high welding speed.
- 3 Use Ar+20~25% CO2 gas.

3G

4G

Welding Position(All-Position)	Current	Shielding Gas
	DC +	Ar+20~25% CO2

Typical Chemical Composition of All-Weld Metal (%						
С	Si	Mn	Р	S	Ni	
0.05	0.24	1.15	0.010	0.010	2.25	

Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (°F)	J (ft · Ibs)
580 (84,100)	620 (89,900)	24.8	-50 (-58) -60 (-76)	110 (81) 90 (66)

Approval	l Packing(I Packing(Including Ball Pac)			
LR, BV, DNV	Dia. (mm)	1.2	1.4	Spool(kg) 12.5	
	(in)	.045	.052	(lbs) 28	

Sizes Available and Recommended Currents (Amp.)			
Size mm (in)	1.2	1.4	
F	130~300	160~330	
V-up,OH	170~230	190~250	
V-down	150~300	170~330	