SL-81Ni2M

Applications

All postion welding of offshore, shipbuilding, bridge construction machinery, and vehicles.

Characteristics on Usage

- (1) SL-81Ni2M is a titania type Seamless 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

- 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.

Weldi	ng Po	ositio	n(All-Posi	tion)	 Current	 Shieldi	ng Gas	
	/		1					
1G	2F	3G	4G					

Typical Chemical Composition of All-Weld Metal (%)

С	Si	Mn	Р	S	Ni
0.04	0.25	1.18	0.009	0.009	2.25

Typical Mechanical Properties of All-Weld Metal

YS	TS	EL	Temp.	CVN-Impact Value
MPa(lbs/in²)	MPa(lbs/in²)	(%)	℃ (℉)	J (ft · lbs)
560 (81,300)	615 (89,200)	22	-40 (-40) -60 (-76)	100 (74) 60 (44)

Approval	I Packing(Including Ball Pac)		
	Dia. (mm) 1.2	1.4	Spool(kg) 12.5
	(in)		(lbs)

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				