TL-56

JIS Z 3212 D5016 AWS A5.1 E7028

Characteristics and Applications:

TL-56 is an iron powder type, 490 N/mm² high tensile steel electrode. It is specially designed for the speed gravity welding in shipbuilding, bridges and vehicles with good mechanical properties, good crack resistance, high recovering rate (about 140%) and effective electrode efficiency (about 14%).

Notes on Usage:

- 1.Dry the electrodes at 150°C for 30-60 minutes before use.
- 2. Clean up the contaminations on the base metal to avoid porosity and crack.
- 3. Use back-step method to prevent arc starting from blowholes.
- 4. Do not exceed the range of proper currents. Over heat input might decrease the impact toughness.

Typical chemical composition of weld metal (wt%)

С	Mn	Si	Р	S	
0.07	0.80	0.25	0.02	0.010	

Typical mechanical properties of weld metal

YS (MPa)	TS (MPa)	EL %	CVN , J		
490	540	26	0℃	-20 ℃	
			98	82	

Welding position



Sizes and recommended current range (AC or DC<+>)

Diameter (mm)		3.2	4.0	5.0	5.5	6.0	7.0
Length (mm)		350	450	550	550	550	550
					700	700	700
Amps	F, H-fillet	120-160	160-200	200-240	230-270	250-300	300-350

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