

ROYAL THERM – (SPL) (E 7018 -1)

AWS : SFA 5.1 E 7018 – 1 IS : 814 EB 5629 H3XJ EN ISO 2560 A E 46 4 B 32 H5

Applications

Boilers, Pumps & Compressors, Blast Furnace steel work, Bridges, Rail wagons, Earth Moving Equipment's, Road Building Machinery, Tanks, Pressure Vessels, Penstocks, Atomic Reactor Shell.

Characteristics on Usage

This unique electrode is capable of yielding welds which are of Radiographic quality specially designed for high Impact values down to – 46 centigrade and is crack resistant. This electrode has easy slag removal, excellent

Approvals

L.R.S., B.V., P.D.I.L., E.I.L., ABS, NPCIL, I.B.R., DNV, MRPL, BHEL, APGIL, IOCL, L&T, TPL UDHE INDIA LTD,

Welding Positions



Notes On Usage

- ⚡ Dry the electrode at 350-400 °C for 60 Min- before use .
- ⚡ Keep the arc as short as possible and avoid large width of weaving.
- ⚡ Adopt back step method or strike the arc on a small plate prepared for this particular purpose to prevent blow hole at the arc starting.

LOW HYDROGEN TYPE ELECTRODES

Chemical Composition Of Weld Metal

C%	Mn%	Si%	S%	P%	Cr %	Ni %	Mo %
0.15 Max	1.60 Max	0.75 Max	0.035 Max	0.035 Max	0.20 Max	0.30 Max	0.30 Max

Mechanical Properties Of Weld Metal

U.T.S. (N/mm ²)	Y.S. (N/mm ²)	ELONGATION (L = 4d) %	IMPACT (CVN) AT - 45° C (J)	Hydrogen content in 100gm weld metal
490 Min	400 Min	22 % Min	47 Joules Min	5 ml Max

Packing and Welding Current

SIZE (mm)	KG PER PACKET	KG PER CARTON	Current (Amps)	In Amps
2.50 x 350	5	20	AC / DC (+)	80 – 100
3.15 x 450	5	20		100 – 135
4.00 x 450	5	20		140 – 180
5.00 x 450	5	20		180 – 250
6.30 x 450	5	20		250 – 320



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