

ROYAL – 8018 C2 (E 8018-C2)

AWS : SFA 5.5, E 8018-C2

IS : 814E 55 BC22gFe

Applications

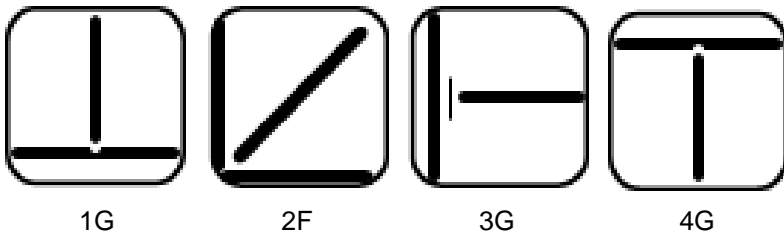
It is used for welding of nickel alloy equipments. Fabrication of pressure vessels, piping system, valves and tanks. Used for welding low temperature service for

Characteristics on Usage

A medium heavy coated low hydrogen iron powder type electrode, the weld metal deposits 3.5%Ni in the weld metal. It is specially designed for welding fine grained steel, nickel steel and nickel alloy steel. It gives high ductility, toughness and resistance to the service temperature at minus 80° C. The electrode gives smooth arc with medium penetration and negligible spatter. It is all position electrode with radiographic quality of weld deposit. Dry the electrode at 250° C for 1 hour before using.

Notes On Usage

- ✍ 1) Dry the electrodes at 350 - 400°C for 60 min before use.
- ✍ 2) Keep the arc as short as possible .
- ✍ 3) Adopt back step method or strike the arc on a small plate prepared for this particular purpose because ar striking o the base metal is in danger of initing cracking.

Welding Positions**Chemical Composition Of Weld Metal**

C%	Mn%	Si%	S%	P%	Ni %
0.12 Max	1.25 Max	0.80 Max	0.030 Max	0.030 Max	3.0 - 3.75

Mechanical Properties Of Weld Metal

U.T.S.	Y.S.	ELONGATION	IMPACT
(N/mm ²)	(N/mm ²)	(L = 4d) %	(C.V.N) AT - 75 °C (J)
550 Min	460 Min	19% Min	27 Joules Min

Approvals**Packing and Welding Current**

SIZE (mm)	PIECES PER PACKET	PIECES PER CARTON	Current (Amps)	In Amps
2.50 x 350	150	600	AC / DC (+)	60 – 90
3.15 x 450	100	400		100 – 140
4.00 x 450	70	280		140 – 180
5.00 x 450	45	180		180 – 250