



SUPRATHERME-R

CODIFICATION: AWS: SFA 5.1 F7018

> IS: 814 EB 5326H₂JX / EB 5426H₃JX

CHARACTERISTICS AND APPLICATIONS:

Supratherme-R is a basic coated. Hydrogen controlled, Iron powder type high yield electrode. The electrode possesses excellent operating characteristics and is suitable for welding in all positions. Radiographic quality welds having high strength and excellent cracking resistance. Weld metal of excellent toughness to withstand heavy dynamic loading and impact. It is ideally suited for fabrication of component made of steels IS: 8500-91 Gr. 440B & 490B. IS: 2002-92 Gr. 1 & 2. IS: 1875-92 Class 2. 2A & 3. IS 2062-99 Gr. C or similar. Also suitable for repair welding of cast steels to IS: 1030 Gr. 230-450W. Supratherme-R also used for joining of stainless Steels type 3Cr12, IRS M-44 or it's equivalent with Mild Steel/Low Alloyed Steel/Carbon Steel.

TYPICAL CHEMICAL COMPOSITION OF ALL WELD METAL:

Flement · C Mn Si S Cr Ni Mη Percent : 0.06 1.02 0.440.022 0.022 0.028 0.036 0.003 0.004

TYPICAL MECHANICAL PROPERTIES OF ALL WELD METAL:

UTS YS Elongation % RA CVN Impact (Joules)

(MPa) (MPa) (1 = 5d)%at minus 30°C at minus 20°C 540 450 28 65

 TRANSVERSE ROOT AND TRANSVERSE FACE BEND: SATISFACTORY (with 3T Mandrel Diameter at 180°)

- DIFFUSIBLE HYDROGEN CONTENT: 5 ml/100 ams of weld metal Max By Mercury method
- MOISTURE CONTENT: 0.15 % Max. As received or conditioned (As per code 0.6% Max.)
- DEPOSITION FEELCIENCY: 115 %
- ACCELERATED STORAGE STABILITY TEST: After this test we have not found any peeling off flux coating, cracking of flux coating, loss of texture of flux and rusting of core wire inside flux coating.
- COATING FACTOR: Heavy (1.51-2.20)

CURRENT AND PACKING DATA: AC/DC(+)

Size (mm) 6.3×450 5 x 450 4 x 450 3.15×450 2.5 x 350

Dia x Length

Current Range 260-320 200-250 150-190 100-150 70-100

(Amps)

Qtv.(Pcs./Carton) : 25 55 75 125 35

APPROVAL: IRS Class B2 & A4

PRECAUTIONS:

- 1. Re-dry the electrodes at 250-300°C for one hour.
- Use short arc length.