



Superon Schweisstechnik India Ltd

Plot no. 552, Pace City-II, Sector 37, Gurugram,
Haryana-122001, India

An ISO 9001 , ISO 14001 &
BS OHSAS 18001 Certified Company

TEST CERTIFICATE AS PER EN 10204 TYPE:3.1

| | | |
|--------------------|------------------|--------------------------|
| CUSTOMER : SWP-U.K | P.O./P.I. NO | 44033/08.02.2024 |
| | INVOICE NO./DATE | EXP/23-24/855/31.03.2024 |
| | QTY.(Kgs.) | 1400.00 |

Brand/Grade: SUPER OPTIMAL 7018S

Report No: SUP 2024/2828

Size (mm): 3.20X350

Date of issue: 31.03.2024

Standard-No./
Classifications: AWS A5.1 : E7018-1 H4

PART No.7606

Batch No/Heat No: GP 27751

Date of Mfg: 27.02.2024

All Weld Metal Chemical Analysis (%)

| Element | C | Si | Mn | S | P | Cr | Ni | Mo | Cu | Nb | V | N |
|---------|--------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|----|----|--------------|---|
| Spec. | 0.15 Max. | 0.75 Max. | 1.60 Max. | 0.035 Max. | 0.035 Max. | 0.20 Max. | 0.30 Max. | 0.30 Max. | - | - | 0.08 Max. | - |
| Result | 0.058 | 0.32 | 1.30 | 0.014 | 0.024 | 0.014 | 0.016 | 0.004 | - | - | 0.006 | - |

Mechanical Properties of All Weld Metal

| | Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Elongation (%) | Charpy Impact Avg. value(Joules) Temp. At -45 (°C) | Hardness (As welded) | Ferrite (FN) |
|--------|--|--|-------------------|--|-------------------------|-----------------|
| Spec: | 400 Min. | 490 Min. | 22 Min. | 27 Min | -- | -- |
| Result | 514 | 586 | 29.00 | 94,84,90,90,92 Avg.=90.67 | -- | -- |

| | | | |
|---|--------------|------------------------------------|--------------|
| Diffusible Hydrogen:- (ml/100gm of weld metal) | 2.98 | Coating Moisture % (As-received):- | 0.26 |
| Radiography:- | Satisfactory | Fillet weld Test:- | Satisfactory |
| Bend Test:- | - | PWHT:- | -- |

TEST CONDUCTED AS PER : AWS/SFA-A5.1 : E7018-1 H4

We certify that the statement in this test report are correct and that the test welds were prepared welded and tested in accordance with the requirement conforming to ASME BPVC.II.C Latest Edition 2023, in all respects.



Manager Quality Assurance

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