



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 | PO No.44396/16.04.2024 |
| INVOICE NO./DATE | EXP/24-25/047/28.04.2024 |
| QTY.(Kgs.) | 1000.00 |

Brand/Grade: SUPER OPTIMAL 6013

Report No: SUP 2024/2842

Size (mm): 2.50X350

Date of issue: 28.04.2024

Standard-No./
Classifications: AWS A5.1: E6013

PART No.7601

Batch No/Heat No: GP 29802

Date of Mfg: 26.04.2024

All Weld Metal Chemical Analysis (%)

| Element | C | Si | Mn | S | P | Cr | Ni | Mo | Cu | Nb | V | N |
|---------|--------------|--------------|--------------|-------|-------|--------------|--------------|--------------|----|----|--------------|---|
| Spec. | 0.20 MAX. | 1.00 MAX. | 1.20 MAX. | N.S. | N.S. | 0.20 MAX. | 0.30 MAX. | 0.30 MAX. | - | - | 0.08 MAX. | - |
| Result | 0.069 | 0.26 | 0.41 | 0.012 | 0.022 | 0.014 | 0.012 | 0.003 | - | - | 0.007 | - |

Mechanical Properties of All Weld Metal

| | Yield Strength (N/mm ²) | Tensile Strength (N/mm ²) | Elongation (%) | Charpy Impact Avg. value(Joules) Temp. At 0 (°C) | Hardness (As welded) | Ferrite (FN) |
|--------|-------------------------------------|---------------------------------------|----------------|--|----------------------|--------------|
| Spec: | 330 Min. | 430 Min. | 17 Min. | Not Specified | - | - |
| Result | 418 | 516 | 25.00 | 68,70,70,74,66 Avg.=69.33 | - | - |

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

TEST CONDUCTED AS PER : AWS/SFA-A5.1 : E6013

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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