



# Superon Schweisstechnik India Ltd

Plot no. 552, Pace City-II, Sector 37, Gurgaon,  
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     | 42420/29.04.2023         |
|                    | INVOICE NO./DATE | EXP/23-24/157/08.06.2023 |
|                    | QTY.(Kgs.)       | 152.00                   |

Brand/Grade: SUPER OPTIMAL 309L-17 Report No: SUP 2023/1997  
 Size (mm): 2.50X350 Date of issue: 08.06.2023  
 Standard-No./ Classifications: AWS A5.4 : E309L-17 PART No.7442S  
 Batch No/Heat No: GP 20273  
 Date of Mfg: 30.05.2023

### All Weld Metal Chemical Analysis (%)

| Element | C            | Si           | Mn           | S            | P            | Cr            | Ni            | Mo          | Cu           | Nb | V | N     |
|---------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|-------------|--------------|----|---|-------|
| Spec.   | 0.04<br>Max. | 1.00<br>Max. | 0.50-<br>2.5 | 0.03<br>Max. | 0.04<br>Max. | 22.0-<br>25.0 | 12.0-<br>14.0 | 0.75<br>Max | 0.75<br>Max. | -  | - | -     |
| Result  | 0.026        | 0.87         | 0.70         | 0.015        | 0.023        | 23.32         | 12.36         | 0.10        | 0.098        | -  | - | 0.074 |

### Mechanical Properties of All Weld Metal

|        | Yield Strength (N/mm <sup>2</sup> ) | Tensile Strength (N/mm <sup>2</sup> ) | Elongation (%) | Charpy Impact Avg. value(Joules) Temp. At ---- (°C) | Hardness (As welded) | Ferrite(FN) as per WRC-1992 |
|--------|-------------------------------------|---------------------------------------|----------------|---|----------------------|-----------------------------|
| Spec:  | -                                   | 520 Min.                              | 30 Min.        | -   | -                    | -                           |
| Result | -                                   | 584                                   | 38.00          | -   | -                    | 13                          |

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

Intergranular Corrosion Test as per ASTM A 262:2008 Practice E : Acceptable

TEST CONDUCTED AS ER : AWS/SFA-A5.4 : E309L-17

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 2021, in all respects.



Manager Quality Assurance