

**TEST CERTIFICATE**  
**AS PER EN 10204 TYPE :3.1**

CUSTOMER : LLC <ALFA GLOBAL> - RUSSIA

P.O./P.I. NO SSIL/EXP/PI/22-23/027/07.04.2022

INVOICE NO./DATE EXP/22-23/266/30.07.2022

QTY.(Kgs.) 2980.00

Brand/Grade: AG E 8018-B6

Report No: SUP 2022/1684

Size (mm): 3.20X350

Date of issue: 30.07.2022

Standard-No./  
Classifications: AWS A5.5 :E 8018-B6

Batch No/Heat No: GP 11652

Date of Mfg: 10.06.2022

**All Weld Metal Chemical Analysis (%)**

| Element | C             | Si           | Mn           | S            | P            | Cr          | Ni           | Mo            | Cu | Nb | V | N |
|---------|---------------|--------------|--------------|--------------|--------------|-------------|--------------|---------------|----|----|---|---|
| Spec.   | 0.05-<br>0.10 | 0.90<br>Max. | 1.00<br>Max. | 0.03<br>Max. | 0.03<br>Max. | 4.0-<br>6.0 | 0.40<br>Max. | 0.45-<br>0.65 | -  | -  | - | - |
| Result  | 0.076         | 0.41         | 0.81         | 0.011        | 0.019        | 5.51        | 0.33         | 0.54          | -  | -  | - | - |

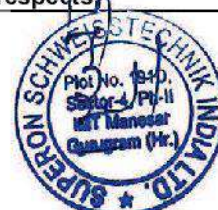
**Mechanical Properties of All Weld Metal**

|        | Yield<br>Strength<br>(N/mm <sup>2</sup> ) | Tensile<br>Strength<br>(N/mm <sup>2</sup> ) | Elongation<br>(%) | Charpy Impact Avg.<br>value(Joules)<br>Temp. At+ 20 (°C) | Hardness<br>(As welded) | Ferrite<br>(FN) |
|--------|-------------------------------------------|---------------------------------------------|-------------------|----------------------------------------------------------|-------------------------|-----------------|
| Spec:  | 460 Min.                                  | 550 Min.                                    | 19 Min.           | Not Specified                                            | --                      | --              |
| Result | 526                                       | 624                                         | 26.00             | 112,124,124,116,128<br>Avg.=121.33                       | --                      | --              |

|                                                   |              |                                         |
|---------------------------------------------------|--------------|-----------------------------------------|
| Diffusible Hydrogen:-<br>(ml/100gm of weld metal) | 2.92         | Coating Moisture % (As-received):- 0.17 |
| Radiography:-                                     | Satisfactory | Fillet weld Test:- Satisfactory         |
| Bend Test:-                                       | -            | PWHT:- --- 740±15°C For 1 Hour          |

TEST CONDUCTED AS PER : AWS-SFA:5.5 E 8018-B6

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