



THE MOST RELIABLE WELDING®

# HOFFMAN ARC CO., LTD

## QUALITY CERTIFICATE OF WELDING CONSUMABLE

| Type      | Norm                                    | Brand Name | Part #  | Diameter     | Lot No.  | Manufactured Date | Date of Issue  |
|-----------|-----------------------------------------|------------|---------|--------------|----------|-------------------|----------------|
| AWS E7018 | AWS A5.1/A5.1M<br>ASME SFA-5.1/SFA-5.1M | SINNVOLL   | 6001802 | 1/8" (3.2mm) | 25-12043 | SHOWN ON PACKAGE  | 30 / 12 / 2025 |

| Mechanical Properties of Deposited Metal | Chemical Composition of Deposited Metal [%] |
|------------------------------------------|---------------------------------------------|
|------------------------------------------|---------------------------------------------|

| Item                          |                            | Requirement | Actual Result | Element | Requirement | Actual Result | Element                     | Requirement | Actual Result        |
|-------------------------------|----------------------------|-------------|---------------|---------|-------------|---------------|-----------------------------|-------------|----------------------|
| Yield Strength Rel(MPa)       |                            | ≥400        | 501           | C       | ≤0.15       | 0.081         | Mo                          | ≤0.30       | 0.0023               |
| Tensile Strength Rm(MPa)      |                            | ≥490        | 592           | Si      | ≤0.75       | 0.57          | V                           | ≤0.08       | 0.008                |
| Elongation A(%)               |                            | ≥22         | 24.5          | Mn      | ≤1.60       | 1.36          | Cu                          | --          | --                   |
| Impact Test                   | Impact Temp (°C)           | -30         | -30           | S       | ≤0.035      | 0.015         | Ti                          | --          | --                   |
|                               | Impact Absorbed Energy (J) | ≥27         | 108 74 66     | P       | ≤0.035      | 0.012         | Al                          | --          | --                   |
| X-Ray                         |                            | --          | Complies      | Cr      | ≤0.20       | 0.047         | --                          | --          | --                   |
| Hydrogen Content (ml/100g)    |                            | --          | --            | Ni      | ≤0.30       | 0.021         | Fillet weld test of T-joint |             | --                   |
| Approved Classification Grade |                            | CCS (--)    | LR (--)       | GL (--) | NK (--)     | ABS (--)      | BV (--)                     | DNV (--)    | KR (--)<br>RINA (--) |

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This is to certify that the welding consumable conform with the standard

Signature

Inspection seal

