



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  |
|-------|-----------|------------|---------|--------------|----------|-------------------|----------------|
| E309L | AWS A 5.4 | Stabil     | 6003902 | 1/8" (3.2mm) | 20160810 | Shown on Package  | 2016 / 11 / 08 |

| 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)                                                      |                         | --          | --                                          | C                                                                        | ≤ 0.4       | 0.034           | Mo      | ≤ 0.75      | 0.11          |           |
| Tensile Strength Rm(MPa)                                                     |                         | --          | 590                                         | Si                                                                       | ≤ 0.9       | 0.77            | N       | --          | 0.054         |           |
| Elongation A5 (%)                                                            |                         | --          | 34                                          | Mn                                                                       | 0.5-2.5     | 1.05            | Cu      | ≤ 0.75      | 0.06          |           |
| Sharp V<br>noch                                                              | Impact Temp (°C)        | --          | --                                          | S                                                                        | ≤ 0.03      | 0.005           | --      | --          | --            |           |
|                                                                              | Av. Absorbed Energy (J) | --          | --                                          | P                                                                        | ≤ 0.04      | 0.027           | --      | --          | --            |           |
| X-Ray                                                                        |                         | --          | --                                          | Cr                                                                       | 22-25       | 24.84           | --      | --          | --            |           |
| Hydrogen Content (ml/130g)                                                   |                         | --          | --                                          | Ni                                                                       | 12-14       | 12.58           | --      | --          | --            |           |
| Approved Classification Grade                                                |                         | CCS (--)    | LR (--)                                     | GL (--)                                                                  | NK (--)     | ABS (--)        | BV (--) | DNV (--)    | KR (--)       | RINA (--) |
| 10050 NW 116TH Way, Suite 15.<br>Medley, Florida 33178.<br>Telf: 305-4205099 |                         |             |                                             | This is to certify that the welding consumable conform with the standard |             |                 |         |             |               |           |
|                                                                              |                         |             |                                             | Signature                                                                |             | Inspection seal |         |             |               |           |
|                                                                              |                         |             |                                             |                                                                          |             |                 |         |             |               |           |