



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 |
|--------|-----------------------------------|------------|---------|--------------|---------|-------------------|---------------|
| ENI-CI | AWS A 5.15-90<br>ASME SFA 5.15-07 | ALPHEN     | 6009902 | 1/8" (3.2MM) | 100423  | SHOWN ON PACKAGE  | 02-05-2023    |

| 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                                                                        | MAX. 2.0    | 1.400           | Mo      | --          | 0.000         |           |
| Tensile Strength Rm(MPa)                                                     |                         | --          | --                                          | Si                                                                       | MAX. 4.0    | 1.070           | Cu      | MAX. 2.5    | 0.100         |           |
| Elongation A5 (%)                                                            |                         | --          | --                                          | Mn                                                                       | MAX. 2.5    | 0.670           | --      | --          | --            |           |
| Sharp V<br>noch                                                              | Impact Temp (°C)        | --          | --                                          | S                                                                        | MAX. 0.03   | 0.010           | --      | --          | --            |           |
|                                                                              | Av. Absorbed Energy (J) | --          | --                                          | Al                                                                       | MAX. 1.0    | 0.020           | --      | --          | --            |           |
| X-Ray                                                                        |                         | --          | --                                          | Fe                                                                       | MAX. 8.0    | 5.100           | --      | --          | --            |           |
| Typical moisture of the covering                                             |                         | --          | 0.16%                                       | Ni                                                                       | MIN. 85     | 92.230          | --      | --          | --            |           |
| 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 |         |             |               |           |
|                                                                              |                         |             |                                             |                                                                          |             |                 |         |             |               |           |