



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 E6010 | AWS A5.1 / A5.1M-2012 | BAUEN      | 6001002 | 1/8" (3.2MM) | 20-30012 | SHOWN ON PACKAGE  | 2020 / 09 / 10 |

| 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)                  |                            | Min. 330    | 425                                         | C       | Max. 0.20   | 0.066         | Mo                          | Max. 0.30   | 0.0069        |           |
| Tensile Strength Rm(MPa)                 |                            | Min. 430    | 515                                         | Si      | Max. 1.00   | 0.064         | V                           | Max. 0.080  | 0.005         |           |
| Elongation A5 (%)                        |                            | Min. 22     | 24.5                                        | Mn      | Max. 1.20   | 0.34          | Cu                          | --          | --            |           |
| Impact Test                              | Impact Temp (°C)           | -30         | -30                                         | S       | Max. 0.035  | 0.017         | Al                          | --          | --            |           |
|                                          | Impact Absorbed Energy (J) | Min. 27     | 100 98 85                                   | P       | Max. 0.040  | 0.005         | Ti                          | --          | --            |           |
| X-Ray                                    |                            | II          | Complies                                    | Cr      | Max. 0.20   | 0.034         | --                          | --          | --            |           |
| Hydrogen Content (ml/100g)               |                            | --          | 6.7                                         | Ni      | Max. 0.30   | 0.017         | Fillet weld test of T-joint |             | Complies      |           |
| Approved Classification Grade            |                            | CCS (--)    | LR (--)                                     | GL (--) | NK (--)     | ABS (--)      | BV (--)                     | DNV (--)    | KR (--)       | RINA (--) |

10050 NW 116TH Way, Suite 15.  
Medley, Florida 33178.  
Telf: 305-4205099

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

Signature

APPROVED  
BY LIAO  
YUGANG

Inspection seal

