



THE MOST RELIABLE WELDING®

# HOFFMAN ARC CO., LTD

## QUALITY CERTIFICATE OF WELDING CONSUMABLE

|                      |                                                |                            |                           |                                 |                           |                                              |                                        |
|----------------------|------------------------------------------------|----------------------------|---------------------------|---------------------------------|---------------------------|----------------------------------------------|----------------------------------------|
| <b>Type</b><br>E4043 | <b>Norm</b><br>ASME SFA 5.3-07<br>AWS A 5.3-99 | <b>Brand Name</b><br>BADEN | <b>Part #</b><br>60040432 | <b>Diameter</b><br>1/8" (3.2MM) | <b>Lot No.</b><br>20-0422 | <b>Manufactured Date</b><br>Shown on Package | <b>Date of Issue</b><br>23 / 06 / 2022 |
|----------------------|------------------------------------------------|----------------------------|---------------------------|---------------------------------|---------------------------|----------------------------------------------|----------------------------------------|

| 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)                                                      |                         | --          | --                                          | Fe                                                                                                                                                                                                                                                                                    | Max. 0.8    | 0.110         | Ti      | --          | --                |
| Tensile Strength Rm(MPa)                                                     |                         | --          | --                                          | Si                                                                                                                                                                                                                                                                                    | 4.5-6.0     | 4.900         | Al      | Remainder   |                   |
| Elongation A5 (%)                                                            |                         | --          | --                                          | Mn                                                                                                                                                                                                                                                                                    | Max. 0.05   | 0.010         | --      | --          | --                |
| Sharp V<br>noch                                                              | Impact Temp (°C)        | --          | --                                          | Mg                                                                                                                                                                                                                                                                                    | Max. 0.05   | 0.000         | --      | --          | --                |
|                                                                              | Av. Absorbed Energy (J) | --          | --                                          | Zn                                                                                                                                                                                                                                                                                    | Max. 0.10   | 0.010         | --      | --          | --                |
| X-Ray                                                                        |                         | --          | --                                          | Be                                                                                                                                                                                                                                                                                    | Max. 0.0008 | 0.0001        | --      | --          | --                |
| Typical moisture of the covering                                             |                         | --          | 0.27 %                                      | Cu                                                                                                                                                                                                                                                                                    | Max. 0.30   | 0.030         | --      | --          | --                |
| 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<br><br>Signature  Inspection seal  |             |               |         |             |                   |