

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Flux Cored Wire/Gas/Backing combination**

with trade name

**FAMILIARC™ DW-100V / C1 / FB-B3**

Manufacturer

**Kobe Steel, Ltd. Ibaraki Plant  
Ibaraki Osaka Pref, Japan**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

|                          |                                              |
|--------------------------|----------------------------------------------|
| <b>Grade</b>             | <b>II YMS</b>                                |
| <b>Current</b>           | <b>DC(+)</b>                                 |
| <b>Approved diameter</b> | <b>1.2 mm, 1.4 mm</b>                        |
| <b>Positions</b>         | <b>Flat, Horizontal and Vertical upwards</b> |
| <b>Remarks</b>           | <b>For one-side welding</b>                  |

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2020-12-31**.Issued at **Høvik** on **2015-12-03**DNV GL local station: **Kobe**for **DNV GL**Approval Engineer: **Maxim Bobrov**

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**Hanne Anita Hjerpetjønn**  
**Head of Section**

Any significant change in design or construction may render this Certificate invalid.