

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Flux Cored Wire/Gas/Backing combination**with trade name  
**DW-Z100 / C1 / FB-B3**

Manufacturer

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

is found to comply with

**DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables**  
**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 - 1.6 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.**Issued at **Hamburg** on **2020-08-28**for **DNV GL**This Certificate is valid until **2025-12-31**.DNV GL local station: **Kobe**Approval Engineer: **Dietmar Liebich**

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**Thorsten Lohmann**  
**Head of Section**

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