

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Flux Cored Wire/Gas/Backing combination**

with trade name

**Dual Shield 7100 / CO2 / KEI-01**

Manufacturer

**Kyung Eun Ceramics Co., Ltd.**

**Gimhae-si, Gyeongsangnam-do, Republic of Korea**

is found to comply with

**DNV GL rules for classification – Ships**

with this approval

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| <b>Grade</b>             | <b>II YMSH10</b>                                           |
| <b>Current</b>           | <b>DC +</b>                                                |
| <b>Approved diameter</b> | <b>1,2 -1,6mm</b>                                          |
| <b>Positions</b>         | <b>PA, PB, PC, PF (1G, 1F, 2G, 2F, 3G up, 3F up)</b>       |
| <b>Remarks</b>           | <b>One-side welding on ceramic backing material KEI-01</b> |

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

This Certificate is valid until **2021-09-29**.

Issued at **Hamburg** on **2016-09-30**

DNV GL local station: **Gimhae**

Approval Engineer: **Hans-Joachim Vogt**

for **DNV GL**

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

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