



# TYPE APPROVAL CERTIFICATE

Certificate No:  
**TAW000040T**  
Revision No:  
**1**

## This is to certify:

That the **Wire/Flux combination**

with trade name  
**US-29 / AF-490E (Hanshin-Yosetu Kizai Co. Ltd)**

Manufacturer  
**Kobe Steel Ltd., Fukuchiyama Plant**  
**Fukuchiyama, Kyoto Pref, Japan**

is found to comply with  
**DNV rules for classification – Ships**  
**DNV class programme DNV-CP-0069 – Type approval – Welding consumables**

with this approval

<b>Grade</b>	<b>III YTM</b>
<b>Current</b>	<b>DC(±)</b>
<b>Approved diameter</b>	<b>1.6 mm - 4.8 mm</b>
<b>Positions</b>	<b>Flat</b>
<b>Remarks</b>	<b>Two run technique for thickness of maximum 16mm</b>

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

Issued at **Hamburg** on **2023-10-24**

for **DNV**

This Certificate is valid until **2028-10-16**.

DNV local unit: **Japan CMC**

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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