

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAW000010N**  
Revision No:  
**2**

**This is to certify:**  
**that the Electrode**

with trade name  
**ESB 52**

Manufacturer  
**Oerlikon Kaynak Elektrodleri ve Sanayi A.S.**  
**ISTANBUL, İstanbul, Türkiye**

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>3 YH5</b>
<b>Current</b>	<b>AC/DC(±)</b>
<b>Approved diameter</b>	<b>2.5 mm - 5.0 mm</b>
<b>Positions</b>	<b>All, including vertical downwards</b>
<b>Remarks</b>	

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

Issued at **Hamburg** on **2026-06-26**

This Certificate is valid until **2031-06-30**.

DNV local unit: **Istanbul**

Approval Engineer: **Ludger Hachmöller**

for **DNV**



Digitally Signed By:  
Martin Wenning  
Location: DNV Hamburg,  
Germany

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

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