

TYPE APPROVAL CERTIFICATE

Certificate no.: **TAW00004M4**Revision No:

This is to certify:

that the Flux Cored Wire/Gas combination

with trade name FCW 13 / C1

Manufacturer

Oerlikon Kaynak Elektrodlari 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

Grade III YMS(H5) Current DC(+)

Approved diameter 1.2 mm - 1.6 mm

Positions All, including vertical downwards

Remarks Also for fillet welding

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

Issued at Hamburg on 2025-07-25

This Certificate is valid until 2030-04-26.

DNV local unit: Istanbul

Approval Engineer: Christine Löll

for **DNV**



Digitally Signed By: Ludger Hachmöller Location: DNV Hamburg, Germany

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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

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TYPE APPROVAL CERTIFICATE

Certificate no.: **TAW00004M5** Revision No:

This is to certify:

that the Flux Cored Wire/Gas combination

with trade name FCW 13 / M21

Manufacturer

Oerlikon Kaynak Elektrodlari 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

Grade III YMS(H5) Current DC(+)

Approved diameter 1.2 mm - 1.6 mm

Positions All, including vertical downwards

Remarks Also for fillet welding

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

Issued at Hamburg on 2025-07-25

This Certificate is valid until 2030-04-26.

DNV local unit: Istanbul

Approval Engineer: Christine Löll

for **DNV**



Digitally Signed By: Ludger Hachmöller Location: DNV Hamburg, Germany

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