



TYPE APPROVAL CERTIFICATE

Certificate No:
TAW00002KR
Revision No:
2

This is to certify:

That the Flux Cored Wire/Gas combination

with trade name
MEGAFIL 713 R / M21

Manufacturer
ITW Welding GmbH
Altleiningen, Germany

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

with this approval

| | |
|-------------------|------------------------------|
| Grade | IV Y40MSH5 |
| Current | DC + |
| Approved diameter | 1,2 - 1,6mm |
| Positions | All, including vertical down |
| Remarks | |

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

Issued at **Hamburg** on **2021-09-20**

for **DNV**

This Certificate is valid until **2026-06-30**.

DNV local station: **Augsburg**

Approval Engineer: **Enno Brück**

Thorsten Lohmann
Head of Section

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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MEGAFIL 713 R / C1Manufacturer
ITW Welding GmbH
Altleiningen, Germanyis found to comply with
DNV GL class programme DNVGL-CP-0069 – Type approval – Welding consumables
DNV GL rules for classification – Ships

with this approval

| | |
|--------------------------|-------------------------------------|
| Grade | III Y40MS(H5) |
| Current | DC + |
| Approved diameter | 1,2 - 1,6 mm |
| Positions | All, including vertical down |
| Remarks | |

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.Issued at **Hamburg** on **2019-01-31**for **DNV GL**This Certificate is valid until **2023-06-30**.DNV GL local station: **Augsburg**Approval Engineer: **Dietmar Liebich****Thorsten Lohmann**
Head of Section

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