

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Flux Cored Wire/Gas combination

with trade name
DW-A80L / M21

Manufacturer

Kobelco Welding of Europe B.V.
HEERLEN, Netherlands

is found to comply with

DNV rules for classification – Ships

DNV class programme DNV-CP-0069 – Type approval – Welding consumables

with this approval

Grade	IV Y69MS (H5)
Current	DC (+)
Approved diameter	1,2 mm
Positions	All, except vertical downwards
Remarks	Also for fillet welding
	Impact test at -60°C with minimum KV 47J

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

Issued at **Hamburg** on **2022-11-16**

This Certificate is valid until **2027-11-15**.

DNV local unit: **Netherlands CMC**

Approval Engineer: **Ludger Hachmöller**

for **DNV**

Thorsten Lohmann
Head of Section

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

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