

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAW000046E
Revision No:
2

This is to certify:

that the Flux Cored Wire/Gas combination

with trade name
DW-110E / C1

Manufacturer

Kobelco Welding of Qingdao Co., Ltd.
Qingdao, Shandong Province, China

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(H10)
Current	DC(+)
Approved diameter	1.2 mm - 1.4 mm
Positions	All, incl. vertical downwards
	Flat, horizontal and vertical upwards for one-side welding
Remarks	Also for one-side welding with temporary backing
	FB-B3 (Kobe Steel Ltd. Ibaraki plant)
	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 **2026-01-20**

This Certificate is valid until **2031-01-21**.

DNV local unit: **Qingdao NB & CMC**

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.

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