

Certificate No: TAW00005FK

## TYPE APPROVAL CERTIFICATE

This is to certify:

That the Flux Cored Wire/Gas combination

with trade name DW-N709SP / C1

Manufacturer

Kobe Steel, Ltd. Ibaraki Plant Ibaraki, Osaka Pef, Japan

is found to comply with

DNV rules for classification – Ships
DNV class programme DNV-CP-0069 – Type approval – Welding consumables

with this approval

Grade - MS
Current DC(+)
Approved diameter 1.2 mm

Positions Flat, Horizontal, Vertical upwards
Remarks For welding of NV 1.5Ni up to NV 9Ni

Impact test at -196°C average value > 34 Joule

Also for fillet welding

The min. yield strength of the weld metal 430 N/mm<sup>2</sup>

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

Issued at Hamburg on 2023-06-07

for DNV

This Certificate is valid until 2028-06-06.

DNV local unit: Japan FiS

Approval Engineer: Dietmar Liebich

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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