

TYPE APPROVAL CERTIFICATE

Certificate No: **TAW00002MZ** Revision No:

This is to certify:

That the Electrode

with trade name **LB-83E**

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 4 Y69H5 Current DC(+)

Approved diameter 3,2 mm - 5,0 mm

Positions All, except vertical downwards

Remarks Also for fillet welds.

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

Issued at Hamburg on 2021-10-28

for DNV

This Certificate is valid until 2027-02-23.

DNV local station: Kobe

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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