

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Stern Tube Bearing Material**

with type designation(s)  
**Friction Free Bearing (FFB)**

Issued to

**MIKASA CORPORATION**  
**Hiroshima, Japan**

is found to comply with

**DNV GL class programme DNVGL-CP-0081 – Type approval – Synthetic bearing bushing materials**  
**DNV GL rules for classification – Ships**

**Application :**

**Synthetic water lubricated propeller shaft bearing material. The Type Approval is valid only when the installation/application of the product is according to the DNV GL Rules and the Manufacturer's recommendations. Maximum nominal bearing pressure: 0.6 MPa.**

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

Issued at **Høvik** on **2020-11-18**

This Certificate is valid until **2025-11-17**.

DNV GL local station: **Kobe**

for **DNV GL**

Approval Engineer: **Gisle Hersvik**

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**Gustav Heiberg**  
**Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

