



Certificate no.:
TAK00002CB

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Synthetic Fibre Ropes**

with type designation(s)

**Polyamide (Nylon) 8-strand braided Mooring Tails,
Polyamide (Nylon) 12-strand braided Mooring Tails**

issued to

**Yancheng Shenli Rope-Making Co., Ltd.
Yancheng, China**

is found to comply with

**DNV class programme DNV-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring
OCIMF Mooring Equipment Guidelines (MEG4), Fourth Edition 2018 [test requirements]**

Application:

Mooring and Towing of Ships and HSLCs.

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

Issued at **Hamburg** on **2024-04-18**

This Certificate is valid until **2029-04-17**.

for **DNV**

DNV local unit: **Nantong**

Approval Engineer: **Gisle Hersvik**

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 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.



Form code: TA 251

Revision: 2023-09

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Product description

Polyamide (Nylon) 8-strand braided Mooring Tails Polyamide (Nylon) 12-strand braided Mooring Tails

- Fibre material: Polyamide (Nylon)
- Specific gravity: 1.14 (sinks in seawater)

Compliance with OCIMF Mooring Equipment Guidelines (MEG4)

Mooring Tail Base Design Certificate – For Polyamide (Nylon) 8-strand 48 mm and 120 mm

Certificate No.: BDC-Tail-01 Rev.0

[Issue date: 2024-03-20]

Mooring Tail Certificate will be issued with reference to Mooring Tail Base Design Certificate.

Mooring Tail Base Design Certificate – For Polyamide (Nylon) 12-strand 48 mm and 120 mm

Certificate No.: BDC-Tail-02 Rev.0

[Issue date: 2024-03-20]

Mooring Tail Certificate will be issued with reference to Mooring Tail Base Design Certificate.

Yancheng Shenli Rope-Making Co., Ltd. has performed the full test scenario as per OCIMF MEG4.

Rope Characteristics

The Rope characteristics are tabulated on the next page observing the following:

Fibre ropes are to be delivered with a linear mass $\pm 5\%$ of the nominal linear mass given in the table.

All TDBF (Tail Design Break Force) values are given for the spliced ropes.

Polyamide (Nylon) 8-strand braided Mooring Tails

Ref. Number / Diameter [mm]	Linear Density -rope [ktex]	TDBF [kN]
48	1440	383
52	1700	450
56	1970	504
60	2260	567
64	2570	639
72	3250	810
80	4010	1008
88	4860	1188
96	5780	1440
104	6780	1620
112	7870	1908
120	9030	2124

Polyamide (Nylon) 12-strand braided Mooring Tails

Ref. Number / Diameter [mm]	Linear Density -rope [ktex]	TDBF [kN]
48	1440	405
52	1700	477
56	1970	540
60	2260	603
64	2570	675
72	3250	855
80	4010	1062
88	4860	1260
96	5780	1530
104	6780	1710
112	7870	2016
120	9030	2250

Application/Limitation

The OCIMF MEG4 approval range covers ropes with diameter from 48 mm to and including 120 mm.

Type Approval documentation

Tests carried out

Type Testing carried out in accordance with **Type Approval documentation**, and according to:

- OCIMF's Mooring Equipment Guidelines (MEG4) [requirements to testing], including:
 - CI1500A-2015, Test Methods for Fiber Rope – Physical Properties
 - CI1500B-2015, Test Methods for Fiber Rope – Performance Properties
 - Guidelines for the Purchasing and Testing of SPM Hawsers (OCIMF, 2000).
- DNV-CP-0100.

The fibre ropes are manufactured in accordance with:

- Product Specification (Nylon Rope).

Marking of product

Product shall be marked with *manufacturer's name*: **Yancheng Shenli Rope-Making Co., Ltd., China**, *type designation* and *diameter*.

The marking is to be carried out in such a way that it is visible, legible and indelible. The marking of product is to enable traceability to the DNV Type Approval Certificate.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments (for Certificate Retention / Certificate Renewal) shall be performed according to DNV-CP-0338.

This certificate is only valid if required Periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE