



Certificate no.:
TAK00002FY

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Synthetic Fibre Ropes**

with type designation(s)

8- and 12-strand Polypropylene Fibre Ropes

issued to

Yangzhou Yangfan Cable Co., Ltd.

Yangzhou, Jiangsu Province, China

is found to comply with

DNV class programme DNV-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring

Application:

Mooring of Ships

Issued at **Hamburg** on **2025-02-27**

This Certificate is valid until **2030-02-26**.

for **DNV**

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

Approval Engineer: **Joachim Rehbein**

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 USD 300 000.

Product description

Polypropylene Ropes: 8- and 12-strand synthetic fibre ropes.

- Specific gravity: 0,93 (floats in seawater)

ROPE CHARACTERISTICS 8- and 12-strand ropes		
Diameter [mm]	Nominal linear mass [ktex]	Minimum Breaking Load [kN]
12	64	22.4
16	123	35.5
20	191	56.0
24	282	80.0
28	386	106
30	448	118
32	509	140
36	645	170
40	814	210
44	955	250
48	1136	300
52	1318	355
56	1455	400
60	1705	450
64	1932	500
72	2455	630
80	3000	800
88	3636	950
96	4318	1120
104	5091	1320
112	5909	1500
120	6510	1600

The data in the table is provided by Yangzhou Yangfan Cable Co., Ltd.

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

Assessed production site:

Yangzhou Yangfan Cable Co., Ltd.
Factory Building No.2, No. 5 Jialu, Xiannv Town, Jiangdu District,
Yangzhou City,
China

Application/Limitation

The Type Approval covers ropes with diameter from 12 mm to and including 120 mm.

Scope of assessment is limited to evaluation of net mass per metre, type of lay and static strength.

Type Approval documentation

Tests carried out

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

- ISO 2307:2019.

Initial setting/cycling of ropes has not been carried out prior to break testing.

Marking of product

Product shall be marked with *manufacturer's name*, *production plant* and *type designation* and *diameter*.

Additionally, the rope shall be marked using one brown yarn along in one of the visible strands.



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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