DNV·GL

Certificate No:
TAK00000FN

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Synthetic Fibre Ropes

with type designation(s)
3- and 8-strand Polypropylene Ropes

Issued to
Jiuli Rope Co., Ltd
YANGAHOYU JIANGSU, China

is found to comply with
DNV GL class programme DNVGL-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring
ISO 1346:2012 "Fibre ropes – Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high-tenacity multifilament (PP3) – 3-, 4-, 8- and 12-strand ropes"

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 GL.

This Certificate is valid until **2021-08-30**.

Issued at **Høvik** on **2016-08-31**

for **DNV GL**

DNV GL local station: **Nanjing**

Approval Engineer: **Helene Bjerke**

Martin Strande
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.

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Product description

Polypropylene Ropes; 3- and 8-strand hawser-laid and braided synthetic fibre rope.
- Specific gravity : 0,91 (floats in seawater)

ROPE CHARACTERISTICS 3-strand hawser-laid rope			
Diameter, mm	**Nominal linear mass, kg/m**	**Minimum Breaking Load (MBL), kN (pp2)**	**kN (pp3)**
6	0,0163	5,92	6,72
8	0,0289	10,1	11,6
9	0,0366	12,6	14,4
10	0,0452	15,4	17,5
12	0,0651	21,6	24,7
14	0,0886	28,9	32,9
16	0,116	37,0	42,1
18	0,146	46,2	52,5
20	0,181	56,1	64,0
22	0,219	67,1	76,4

ROPE CHARACTERISTICS 8-strand braided ropes			
Diameter, mm	**Nominal linear mass, kg/m**	**Minimum Breaking Load (MBL), kN (pp2)**	**kN (pp3)**
20	0,181	56,1	64,0
22	0,219	67,1	76,4
24	0,260	78,8	89,6
26	0,306	91,5	104
28	0,354	105	119
30	0,407	119	136
32	0,463	134	154
36	0,586	167	191
40	0,723	204	233
44	0,875	243	278
48	1,040	286	327
52	1,220	332	379
56	1,420	381	436
60	1,630	433	495
64	1,850	488	558
72	2,340	608	692
80	2,890	740	850
88	3,500	887	1 010
96	4,170	1 040	1 190
104	4,890	1 210	1 380
112	5,670	1 390	1 580
120	6,510	1 580	1 800

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

Application/Limitation

The Type Approval covers ropes with diameter from 6 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

1.
2.
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Tests carried out

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

- ISO 2307:2010

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

The fibre rope is manufactured in accordance with ISO 1346:2004 "Fibre ropes - Polypropylene split film, monofilament and multifilament (pp2) and polypropylene high tenacity multifilament (pp3) - 3-,4-and 8-strand ropes".

Marking of product

Product shall be marked with *manufacturer's name*; **Jiuli Rope Co., Ltd., China**, *production plant* and *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 GL 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.

Assessment to be performed after 2.5 years (Certificate Retention) and at renewal after 5 years (Certificate Renewal).

The main elements of the Periodical Assessment are:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV GL Type Approval Certificate.

END OF CERTIFICATE