Certificate No:
TAK000023W

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Synthetic Fibre Ropes

with type designation(s)
NyloMoor-8™

Issued to
Samson Rope Technologies
Ferndale, WA, USA

is found to comply with
DNV class programme DNV-CP-0100 – Type approval – Synthetic fibre ropes for towing, mooring and anchoring
ISO 1140:2012 "Fibre ropes – Polyamide – 3-, 4-, 8- and 12-strand ropes"
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 **Høvik** on **2022-06-02**
This Certificate is valid until **2027-06-01**.
DNV local station: **Seattle**

Approval Engineer: **Gisle Hersvik**

for **DNV**

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 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.

Product description

NyloMoor™-8: 8 Strand plaited synthetic fibre rope

- Fibre material: Polyamide (Nylon) fibres
- Specific gravity: 1.14 (sinks in seawater)
- Elongation at break: 23 %

Compliance with OCIMF Mooring Equipment Guidelines (MEG4)

Mooring Tail Base Design Certificate – For NyloMoor™-8 32 mm and 112 mm
Certificate No.: 260/NyloMoor-8/MEG4/Samson/BDC
Mooring Tail Certificate will be issued with reference to Mooring Tail Base Design Certificate.

Testing has been performed with 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 ±5% of the nominal linear mass given in the table.

Linear Density (LD) and Load Bearing Linear Density (LBLD) are tabulated on the following pages.

All TDBF (Tail Design Break Force) values are given for new, wet, spliced mooring tail.

NyloMoor™-8

Diameter [mm]	Linear Density (LD, LBLD) [kg/100m]	Tail Design Break Force] [mT]
32	63.2	20.9
36	80	26
40	99.1	31.8
44	120	38
48	142	44.9
50	166	52.3
52	169	53.6
54	183	57.4
55	190	59.7
56	193	60.8
57	203	63.5
58	207	65
59	219	68.9
60	222	69.8
61	230	72.7
62	236	75
63	248	78.8
64	252	80.7
65	260	82.6
66	272	87.2
68	285	91
70	301	95.6
72	319	99.9
73	324	101
74	341	106
76	355	111
78	374	116
80	394	122
82	414	128
84	434	134
86	455	140
88	471	147
90	504	153

Diameter [mm]	Linear Density (LD, LBLD) [kg/100m]	Tail Design Break Force] [mT]
94	544	160
96	574	167
98	598	174
102	628	182
104	653	190
106	685	199
108	718	208
110	748	217
112	779	226

Application/Limitation

The OCIMF MEG4 Type Approval range covers ropes with diameter from 32 mm to and including 112 mm.

Manufactured by

INDIA NETS Unit 1, Indore SEZ Phase-I, Sector-III, Plot No D-1 to 12, B-1, 2 & F-3 to 5, Pithampur-454775, Dist.-Dhar-454775, Madhya Pradesh, India

INDIA NETS Unit 2, Indore SEZ Phase-I, Sector-III, F-I & F-2, Pithampur-454775, Dist.-Dhar-454775, Madhya Pradesh, India

DNV local station: Mumbai

Responsibility

The Company (stated on the front page of this Certificate) takes the responsibility that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

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]

The fibre ropes are manufactured in accordance with:

- Product Specifications for NYLOMOOR™-8.

Marking of product

Product shall be marked with *manufacturer's name*; **Samson Rope Technologies, USA**, and *type designation, diameter, product code* and *strength*.

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