

## **Type Approval Certificate Extension**

This is to certify that Certificate No. 07/00062(E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

**PRODUCER** Lanex a.s.

PLACE OF Hlucinska 1/96
PRODUCTION 747 23 Bolatice
Czech Republic

**DESCRIPTION** Marine and offshore mooring ropes of synthetic materials

TYPE POLYAMIDE, POLYAMIDE HT

POLYS, Type L - polypropylene/polyethylene;

CRUISER, CRUISER Plus Type L - polypropylene/polyethylene +

polyester

POLYPROPYLENE, Type L - polypropylene PP MULTIFILAMENT, Type L - polypropylene TITAN, TITAN PLUS, Type L- polyester +

polypropylene/polyethylene

APPLICATION Marine and offshore mooring ropes

07/00062(E3)

STANDARD BS EN ISO 1968:2004 - Fibre ropes and cordage. Vocabulary

BS EN ISO 10572:2009 - Mixed polyolefin fibre ropes BS EN ISO 9554:2010 - Fibre ropes. General specification

BS EN ISO 1140:2012 - Fibre ropes. Polyamide. 3, 4, 8, and 12

strand ropes

TYPE APPROVAL SYSTEM

Reviewed for compliance with Lloyd's Register Type Approval System, see the certificate number as shown below:

30 October 2017 Certificate Number: 07/00062(E3)

Date: 28 March 2019 Initials: [Initials]

Expiry Date 29 October 2022

1 of 4 Discipline Mayur Jo

Marine Technology & Engineering Services, London or Southampton

[Office Location] Office

Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

Certificate No.

**Issue Date** 

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BS EN 2307:2007 - Fibre ropes - Determination of certain physical and mechanical properties

BS EN ISO 10556:2009 - Fibre ropes of polyester/polyolefin dual

BS EN ISO 1346:2012 - Fibre ropes-polypropylene split film, mono filament and multifilament (PP2) and polypropylene high tenacity multi filament (PP3) 3, 4 and 8 strand ropes

**RATINGS POLYS:** 

> Diameter (mm): 28, 30, 32,34, 36, 38, 40, 44, 48, 52,

> > 56, 60, 64, 68, 72, 76, 80, 84, 88, 92,

96, 100

Minimum breaking strength (kN): 147.0 to 1524.0 8 strand braided

Make up:

**CRUISER:** Diameter (mm): 28, 30, 32, 36 40, 44, 48, 50, 52, 56,

60, 64, 68, 72, 76, 80, 84, 88, 90, 92,

159.8 to 1949.0 Minimum breaking strength (kN):

Make up:

8 strand braided

**CRUISER PLUS:** 

Diameter (mm): 28, 32, 36, 40, 44, 48, 52, 56, 60, 64,

68, 72, 76, 80, 84, 88, 92, 96, 100,

104

Minimum breaking strength (kN): 170.0 to 2235.0

8 strand braided Make up:

**POLYPROPYLENE:** 

Diameter (mm): 28, 30, 32, 34, 36, 38, 40, 42, 44, 46,

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48, 50, 52, 54, 56, 60, 62, 64, 66, 68, 70, 72, 76, 78, 80, 84, 88, 92, 96, 100,

Minimum breaking strength (kN): 115.5 to 1360.0 8 strand braided Make up:

TITAN:

Diameter (mm): 28, 32, 36, 40, 44, 48, 52, 56, 60, 64,

68, 72, 76, 80, 84, 88, 92 96, 100,

104

Minimum breaking strength (kN): 178.0 to 1878.0

Make up: 8 strand braided

**TITAN PLUS:** 

Diameter (mm): 28, 32, 36, 40, 44, 48, 52, 56, 60, 64,

68, 72, 76, 80, 84, 88, 92, 96, 100,

104

205.0 to 2290.0 Minimum breaking strength (kN):

Make up: 8 strand braided

PP MULTIFILAMENT:

28, 30, 32, 36, 40, 44, 48, 52, 56, 60, Diameter (mm):

64, 68, 72, 76, 80, 84, 88, 92, 96

Minimum breaking strength (kN): 114.5 to 1121.0 8 strand braided

Make up:

**POLYAMIDE:** 

Diameter (mm): 28, 30, 32, 36, 40, 44, 48, 52, 56,

60, 64, 68, 72, 76, 80, 84, 88, 92,

96, 100, 104 150 to 1860.0

Minimum breaking strength (kN): Make up: 8 strand braided

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Initials: [Initials] Date: 28 March 2019

[Office Location] Office

Marine Technology & Engineering Services, London or Southampton

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POLYAMIMDE HT (PA HiTen) type L:

Diameter (mm): Minimum breaking strength (kN): Make up: 40.0 to 96.0 392.00 to 2000.00 8 strand braided

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 07/00062(E2) to which this extension should be attached.

**TYPE APPROVAL SYSTEM** 

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Sheet 4 of 4

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