

ACERA AMUNDSEN 28MM 180M PLATINUM 2X1,8M SUPEREYE

Product group: **322** Product number: **410572**

Acera Amundsen is a 12 strand high performance rope made from the genuine Acera HMPE yarns, with the unique super eye in both ends with mesh and hollow braided protection.



Product information

Acera Amundsen is a DNV GL type approved 12-strand high performance rope made from genuine Acera HMPE yarns, which is individually coated through a rotating 360° Lick-roller process. This cumbersome single yarn coating process demonstrates the uncompromising commitment to the quality standards of Acera. Single yarn coating is proven to significantly enhance internal and external abrasion resistance, and extend service life and strength. 12 strand ropes are regarded as the best rope construction, and has become the most common construction for HMPE ropes.

Acera Amundsen is the alternative to the cumbersome steel wire ropes. It is stronger and safer, with significantly less snap-back. The corresponding weight is therefore 7 times lower. When replacing conventional fiber ropes, the reduction in diameter leads to significant savings in weight (60%), space and handling. This reduces the total time required for mooring operations and fuel consumption.

Features

- 12 strand plaited HMPE rope
- Buoyant
- Single yarn coating
- 7 times lighter than steel and 60% lighter than conventional fiber rope
- Excellent UV resistance
- Excellent eye protection with y-connection

Benefits

- Easy to handle
- Easy to splice
- Easy to inspect
- High abrasion resistance
- No rotation under load
- High construction stability
- Increased rope service lifetime
- Low elongation and 0% water absorption

Specification

General

Invent Hazard Material (IMO/EU) classification	NA
Material type and grade	Acera H16 (HMPE)

Physical properties

Colour	Platinum grey
Construction	12 strand plaited
Density [kg/m³]	0.97 (floating)
Elongation [%]	2-3% at break
Eyes	Supereye
Jacketed	false
Line Construction	12x1 braided
Line Linear Density (LLD)	0.401 kg/m
Line Tenacity (LT) Maximum	162.9 t/kg/m
Line Tenacity (LT) Maximum (kN/g/m)	1.68 kN/g/m
Line Tenacity (LT) Measured	156.3 t/kg/m
Load Bearing Linear Density (LBLD)	0.401 kg/m

Melting point	145°C - 150°C
NSBF (if requested)	Not requested
Rotating	false
Splice type and design	Tension (12S/Z)x1

Dimensions/Weight

Diameter [mm]	28
Length [m]	180

Technical data

Angled Break Force (ABF) % Avg NSBF D/d = 10	199.18 (99.59)
Angled Break Force (ABF) % Avg NSBF D/d = 5	184.68 (92.34)
Angled Endurance (AE) % Avg NSBF D/d = 10	86.00
Angled Endurance (AE) % Avg NSBF D/d = 5	60.04
Average Immediate Strain (e) %LDBF:10	0.20
Average Immediate Strain (e) %LDBF:20	0.42
Average Immediate Strain (e) %LDBF:30	0.62
Average Immediate Strain (e) %LDBF:40	0.82
Average Immediate Strain (e) %LDBF:50	1.01
Axial Compression Resistance (ACR)	93.16% Avg NSBF
Line Design Break Force (LDBF)	62.7
Oil content in fiber	<0.1%
Spliced MBL/LDBF [kN]	615
Temperature (T) % BF at 20°C 0C	110
Temperature (T) % BF at 20°C 20C	100
Temperature (T) % BF at 20°C -20C	111
Temperature (T) % BF at 20°C 40C	94
Temperature (T) % BF at 20°C 60C	86
Temperature (T) % BF at 20°C 80C	57
Unspliced MBL [kN]	685
Unspliced MBL [t]	69.6

Performance data

DNVGL	Y
SBA	N
Strength adjustment	10%
Var Range From	100%
Var Range To	105%

Approvals

Type Approved Product by DNV GL.

This product is produced according to ISO 9554:2010 and tested according to ISO 2307:2010.

Minimum Breaking Load (MBL) is according to ISO 10325:2009 and verified by DNV GL.

Manufactured acc. to => ISO 9554, ISO 10325

Tested acc. to => ISO 2307, CI 1500A, DNVGL-CP-0100

Type Approval No => TAK0000097

Documents

[Acera Amundsen - Use and Care Manual](#)

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