

# Acera® Amundsen

## 12-strand HMPE rope



Great ropes since 1772

**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.

## TYPE APPROVED CERTIFICATE K-5913



DNV·GL

12 strand ropes are regarded as the best rope construction, and has become the most common construction for HMPE ropes.

**Key benefits:**

- Ease of handling
- Easy to splice
- Easy to inspect
- High construction stability
- Well balanced; 6 left and 6 right strands
- Outsized surface contact - better abrasion resistance
- No rotation under load
- Single yarn coating, extended service life

**Acera® Amundsen** is the alternative to the cumbersome steel wire ropes. It is stronger

and safer, with significantly less snap-back/recoil. 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.

The lightweight, ultra strong **Acera® Amundsen** is available at a market competitive price and can be customised to suit a number of key applications:

- Mooring - Towing - Lifting - Winching
- Tankers, cruise ships, tug boats
- Offshore and seismic vessels, etc

## TIMM HIGH PERFORMANCE ROPE - TECHNICAL SPECIFICATION

CONSTRUCTION	12-strand plaited
FIBER	Acera® HMPE
SPECIFIC GRAVITY	0,97 (floating)
UV RESISTANCE	Excellent
ABRASION RESISTANCE	Excellent
ACID RESISTANCE	Excellent
ALKALI RESISTANCE	Excellent
MOST CHEMICALS RESISTANCE	Excellent
COLD & FROST RESISTANCE	Excellent
WATER RESISTANCE	Excellent (0% absorption)
HEAT RESISTANCE	Low (145-150° melting)
ELONGATION	Low (2-3% at break)
COLOURS	Platinum 

Other colours and colour combinations available on request

**Acera®** is a registered trademark owned by Timm AS. All Timm **Acera®** products are made in our European factory, with HMPE type approval or survey report from DNV GL. Each single yarn is individually coated through a rotating 360° coating process. **Acera®** ropes meet the ISO 10325 standard for breaking strength and ISO 9554 general specifications.

**ACERA®**  
Genuine HMPE fiber



Diameter mm	Minimum strength kp	Minimum strength kN	Diameter mm	Minimum strength kp	Minimum strength kN
6	3 770	37	34	97 890	960
8	6 650	65	36	106 050	1 040
10	10 400	102	38	118 280	1 160
12	14 980	147	40	128 480	1 260
14	20 390	200	44	148 870	1 460
16	26 510	260	48	173 350	1 700
18	31 610	310	52	200 880	1 970
20	38 740	380	56	230 450	2 260
22	45 880	450	60	257 980	2 530
24	53 020	520	64	289 590	2 840
26	61 180	600	68	323 250	3 170
28	69 340	680	72	358 940	3 520
30	78 510	770	76	396 660	3 890
32	88 710	870	80	438 470	4 300

Nominal diameter as per definition in ISO 1968. Minimum strength defined as MBF/MBL (Minimum Breaking Force, minimum breakload), and measured in kilogram force/kp, tested according to ISO 2307 and verified by DNV GL. Spliced ropes will on average have 10 % lower minimum strength.

TAA - Acera S - 12 strand HMPE rope - 2014.12.03