

# Acera™ Amundsen

## Use and Care Guidelines

Acera™ Amundsen is a 12 strand high performance mooring rope made from genuine Acera™ HMPE yarns, with the unique supereye in both ends. Each yarn is individually protected with coating, giving high internal and external abrasion resistance.

Please check the product packaging before opening the package. Any cuts or significant damages should be immediately communicated to a supervisor, with relevant photographs before taking the rope in use. All ropes must be used according to their intended use and any applicable guidelines specified by class or other governing bodies.

It is recommended that new ropes are loaded carefully for the first 5-10 mooring operations, in order for the rope fibers to settle into position. We recommend to always use single tails connected with cow hitch when mooring with Acera™ Amundsen. Mooring ropes are not intended for towing, as towing involves shock loads that exceed the Working Load Limit, as shown in the strength diagram below.

When installing the product, a rotating platform should be used to ensure the rope remains without twist. Twist in a rope will reduce the overall strength. When installing the product on a split drum winch, we recommend as according to OCIMF MEG4 a minimum of 10 full turns on the tension drum, in one layer only. If 10 full turns are not possible, we recommend to make as many wraps as possible in one single layer.

Working Load Limit: 50% of spliced MBL (LDBF)

Recommended Working Load: 22% of spliced MBL (LDBF)

Timm™ ropes are made as according to ISO and Cordage Institute, following the recommendations from OCIMF MEG4. The ropes are Type Approved by DNV GL.

### Product features

<b>Colour:</b>	Platinum
<b>Construction:</b>	12x1 braided
<b>Specific Gravity:</b>	0.97 (floating)
<b>Elongation:</b>	2-3% at break
<b>Melting Point:</b>	145°C
<b>Water Absorption:</b>	0%

### Rope Care Instructions

- All ropes must be stored out of direct sunlight and away from extreme heat
- All ropes should be stored in a dry area on a level surface, secured with no sharp edges nearby
- Prolonged UV exposure can affect physical and mechanical properties
- Exposure to chemicals can weaken or damage ropes
- All leads, bits, drums and other surfaces must be kept smooth to avoid chafing
- Any areas exposed to high abrasion/unmaintained sharp edges should be protected by rope protection such as Timm™ Chafe Guard
- Inspect rope regularly to ensure no damages to the rope, and avoid contact with sand, metal dust etc.

### Strength diagram for mooring ropes

	Fitting	% ship design MBL	
		Max LDBF	LDBF = 100-105% ship design MBL
Increased loading on line leading to increased rate of damage and increased risk of loads exceeding residual strength	Mooring line	Ship design MBL	Ship Design MBL
		75	Residual strength – Recommended retirement of mooring lines as according to OCIMF MEG4
		55 wire	Working Load Limit
Working loads are within maximum expected values for anticipated environmental conditions	Mooring line	WLL (50-55%)	Working Load Limit
		50 synthetics	Working Load Limit
Typical operational range	Mooring line	22	Recommended working load
		0	

OCIMF (2018). Mooring Equipment Guidelines (MEG4).

### Check list prior to first mooring operation:

Packaging in good condition	<input type="checkbox"/>
Certificates available and stored onboard the vessel	<input type="checkbox"/>
All mooring equipment have smooth steel surfaces with even paint and no sharp edges	<input type="checkbox"/>
Acera™ HMPE rope installed with a turntable to avoid twisting of the rope	<input type="checkbox"/>
In case of tension drum on the winch: The tension drum contains only one single layer of rope	<input type="checkbox"/>
Each Acera™ HMPE rope is connected with a single mooring tail with cow hitch as connection method	<input type="checkbox"/>
Rope protection available onboard	<input type="checkbox"/>

Assessing condition should be a combination of visual inspection and the number of running hours that a line has undergone. If you are ever in any doubt in the ability of the product performing its required application, it should be taken out of operation and replaced. More detailed information including inspection and retiral information can be found at [wilhelmsen.com](http://wilhelmsen.com)