

**DYNAMICA**  
Ropes ApS



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DYNAMICA ropes are made from Dyneema® fibres produced by DSM in Holland.

Dyneema® fibres are some of the strongest fibres in the world. The ropes have excellent properties with regard to strength, abrasion, tension fatigue, bending fatigue.

DYNAMICA ropes are the most compact ropes in the world made from Dyneema® fibres.

Dyneema® is a registered trademark owned by Royal DSM N.V.



A DANISH PRODUCT FROM NETMARK

Dynamica  
Ropes



## Applications:

- Offshore applications
- Fisheries  
Bridles, Gilson's, Cod lines,  
Head lines, Salvage ropes,  
Front end meshes, Warps
- Lifting applications
- Mooring ropes
- Towing
- 4x4WD



Gilson



Trawl wire



Forestry



4x4

# Strength and power the ultimate Dynamica ropes...

## Braided Dynamica Rope - SK75

Diameter mm	Breaking load in tonnes	Runnage m/kg	Max. length app. metres	Max. length app. Ft.	Weight/100 m kgs app.	Weight pr. 328 ft. Lbs app.
05 mm	3.3	72.5	2200	7217.8	1.4	3.1
06 mm	4.0	50.0	2200	7217.8	2.1	4.6
07 mm	6.1	36.5	2200	7217.8	2.7	6.0
08 mm	8.1	28.5	2200	7217.8	3.5	7.7
09 mm	9.0	24.0	2200	7217.8	4.2	9.2
10 mm	10.9	20.4	2200	7217.8	4.6	10.1
11 mm	13.9	16.2	2200	7217.8	6.2	13.6
12 mm	17.8	11.6	2200	7217.8	9.0	19.8
14 mm	21.7	8.6	2000	6561.7	12.0	26.4
16 mm	26.1	6.9	1800	5905.5	14.0	30.8
18 mm	35.8	5.2	1180	3870.0	19.0	41.8
20 mm	40.8	4.6	1000	3280.0	22.0	48.4
22 mm	50.5	3.8	900	2952.0	26.0	57.2
24 mm	60.0	2.9	680	2231.0	34.0	74.8
26 mm	65.0	2.8	620	2034.1	36.0	79.2
28 mm	71.0	2.4	510	1672.0	40.0	88.0
30 mm	77.8	2.3	500	1640.4	43.0	94.6
32 mm	87.2	2.1	450	1476.0	48.0	105.6
34 mm	92.2	2.0	410	1345.0	49.0	107.8
36 mm	106.7	1.6	350	1148.3	60.0	132.0
38 mm	132.8	1.4	300	984.3	68.0	149.6
40 mm	145.0	1.3	275	902.0	73.0	160.6
42 mm	155.0	1.2	249	816.0	83.0	182.6
44 mm	170.0	1.0	210	688.0	100.0	220.0
48 mm	180.0	0.8	175	574.0	125.0	275.0
52 mm	195.0	0.7	150	492.0	143.0	314.6
58 mm	210.0	0.6	125	410.0	160.0	352.0

DYNAMICA ropes are made from Dyneema® fibres produced by DSM in Holland.

Dyneema® fibres are some of the strongest fibres in the world. The ropes have excellent properties with regard to strength, weight, UV-stability (daylight), safety, abrasion, tension fatigue, bending fatigue.

DYNAMICA ropes are the most compact ropes in the world made from Dyneema® fibres.

DYNAMICA ropes are produced in Denmark on state of the art machinery, to ensure the best obtainable quality.

DYNAMICA ropes are coated with a unique coating that ensures shape stability and increased abrasion resistance for longer working-life. DYNAMICA ropes are heat-set under tension to ensure maximum strength, durability and uniformity.

### The Dyneema® fiber. Properties

**Strength**  
Dyneema® fibres are more than ten times stronger than steel per unit of weight. This means that a Dynamica rope has a slightly higher strength than a steel wire of the same dimension - but less than one tenth of the weight.

DYNAMICA ropes are produced from Dyneema® fibres type SK75.

### Tension-tension fatigue

Dyneema® fibres can sustain a very large number of peak loads (loads close to the breaking strength). This gives a long life and a high safeworking load. While steel-wire can take 6500 loads at 50 % of the maximum breaking load DYNAMICA ropes can take 10 million cycles at the same load level. DYNAMICA ropes are therefore an excellent material for dynamic applications.

### Safety

Dyneema® fibres has a very low elongation (2-3% at break). It stores little energy and therefore has little backlash - even at hundreds of tonnes of load. Using Dyneema® fibres the amount of stored energy is much lower vis á vis nylon or steel wire ropes. This is a very important safety-feature.

### UV-stability

Dyneema® fibres has a better stability to sunlight than other relevant fibres. After two years of exposure 80% of the strength is retained.

### Resistance to chemical substances

Dyneema® fibres is resistant to chemical substances and will not be affected by oil, acids or other substances.

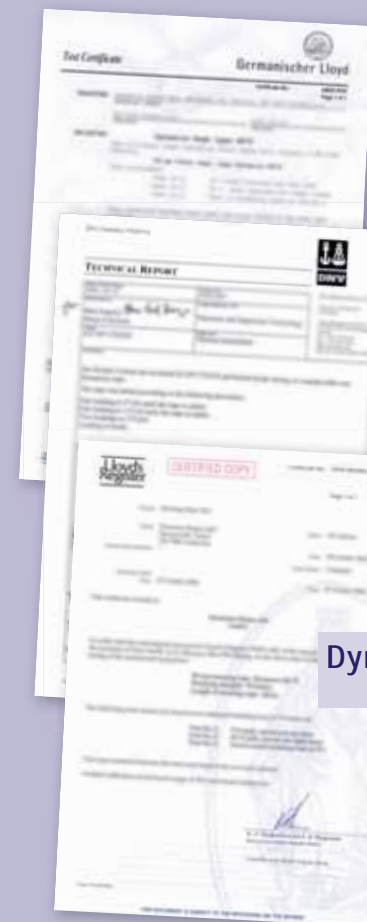
### Abrasion

Dyneema® fibres has an excellent abrasion resistance compared with other synthetic fibres (five times better than polyester). Special care has to be taken, however, in order to ensure that it moves over clean nonrust surfaces etc. Sharp edges etc. should be avoided.

### Bending-bending fatigue

Dyneema® fibres has good bending properties. However, it is recommended to bend over diameters of at least five times the diameter of the rope.

## Major certificates available



Dynamica Ropes



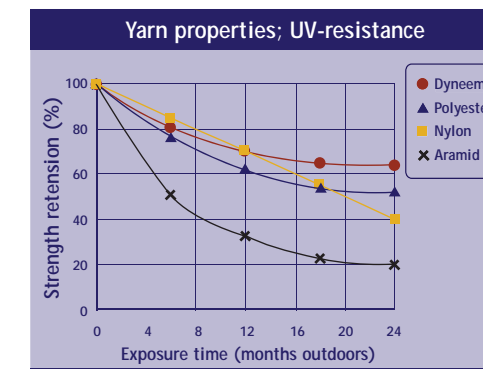
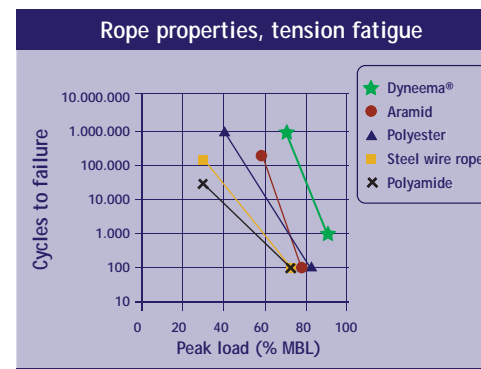
Gliding



Mooring lines



Lifting



\*The above breaking strengths are the breaking strengths of ropes. Splices will decrease the breaking strengths by app. 10%. All the technical characteristics are strictly indicative. They can not engage the responsibility of Dynamica Ropes ApS. We reserve the rights to change them without prior notice.



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