

# OPTIMA

## Premium UHMWPE Synthetic Fiber Rope

Optima 5 is made of premium Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and is the highest strength synthetic fiber rope available made by ROPERS. Combined with two-color anti-twist identification design, Optima 5 strengthen the protection with the working environment, and the bright two-color identification design can effectively prevent the distortion during operation and avoid the loss of strength.

The Optima 5 ropes are suitable for all types of vessels, ranging from small boats, fishing vessels, and yachts, to barges, ferries, cruise ships, and LNG carriers, and even to large container ships, bulk carriers. It is the premier choice for all vessels.



Multi-color and permanent twist identification



Floats



Perfect bending fatigue and relaxation fatigue



Extremely high strength



### Technical Information



**0.98**  
SPECIFIC GRAVITY



**12×12**  
CONSTRUCTION



**280°F (140°C)**  
MELTING POINT



**150°F (65°C)**  
CRITICAL TEMP



**3.2%**  
ELONGATION  
AT 30% BREAK



**0**  
WATER  
ABSORPTION

Can be certified by



Diameter mm	Weight kg/100m	Minimum Strength Spliced Rope ton 12*12	Minimum Strength ISO Unspliced Rope ton
24	33.0	52.0	57.8
26	40.5	61.1	67.9
28	47.5	68.0	75.6
30	52.5	77.5	86.1
32	61.0	91.0	101.1
36	74.1	103.0	114.4
40	94.0	134.0	148.9
44	115.0	147.0	163.3
48	128.0	164.0	182.2
52	157.0	198.0	220.0
56	170.3	220.0	244.4
60	215.0	250.0	277.8
64	228.0	273.0	303.3
68	257.0	331.5	368.3
72	310.0	368.2	409.1
76	330.0	404.1	449.0
80	385.0	450.0	500.0
88	506.0	601.0	667.8
96	628.0	743.0	825.6
100	679.0	787.0	874.4

Diameter, weight and MBS are determined in accordance with ISO 2307:2010. Custom size and length available by request.



**ROPERS ROPE**



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