

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 inch	Weight lbs/100ft	Minimum Strength Spliced Rope lbs	Minimum Strength ISO Unspliced Rope lbs
1	22.1	114,400	127,200
1 1/16	27.1	134,400	149,400
1 1/8	31.8	149,600	166,300
1 1/4	35.2	170,500	189,400
1 5/16	40.9	200,200	222,400
1 1/2	49.6	226,600	251,700
1 5/8	63.0	294,800	327,600
1 3/4	77.0	323,400	359,300
2	85.7	360,800	400,800
2 1/8	105.1	435,600	484,000
2 1/4	114.1	484,000	537,700
2 1/2	144.0	550,000	611,200
2 5/8	152.7	600,600	667,300
2 3/4	172.1	729,300	810,300
3	207.6	810,000	900,000
3 1/8	221.0	889,000	987,800
3 1/4	257.8	990,000	1,100,000
3 5/8	338.9	1,322,200	1,469,200
4	420.6	1,635,000	1,816,000
4 1/8	454.7	1,731,400	1,923,700

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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