

OPTIMA 3

General UHMWPE Synthetic Fiber Rope

Optima is made of Ultra-High Molecular Weight Polyethylene (UHMWPE) fiber and this highest strength synthetic fiber rope available made by ROPERS.

Optima 3 has many characteristics, such as high strength, light weight, wear resistance, impact resistance, low temperature resistance, ect. It is an ideal rope for marine and industrial markets.

Under the same strength, the weight of Optima 3 is only 1/8 of that of steel wire rope.



High strength and light weight



Non-absorbent, floating on water



Good wear resistance



Extremely low elongation improves operate efficiently



Perfect bending fatigue and relaxation fatigue



High efficiency



Technical Information

0.98
SPECIFIC GRAVITY

1×12
STRUCTURE

280°F (140°C)
MELTING POINT

130°F (65°C)
CRITICAL TEMP

4.8%
ELONGATION AT 50% BREAK

0
WATER ABSORPTION



Diameter	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
inch	lbs/100ft	lbs	lbs
1	22.8	109,800	122,000
1 1/16	26.8	130,000	144,400
1 1/8	31.5	145,200	161,300
1 1/4	35.5	165,000	183,300
1 5/16	41.6	195,800	217,600
1 1/2	50.3	222,200	246,900
1 5/8	63.7	288,200	320,200
1 3/4	77.8	316,800	352,000
2	86.5	354,400	393,800
2 1/8	105.9	429,000	476,700
2 1/4	115.3	479,600	532,900
2 1/2	144.2	539,000	598,900
2 5/8	154.2	596,400	662,700
2 3/4	171.6	660,000	733,300
3	213.9	783,200	870,200
3 1/8	234.7	853,600	948,400
3 1/4	260.2	942,900	1,047,700
3 5/8	346.0	1,249,600	1,388,400
4	422.4	1,518,000	1,686,700
4 1/8	459.3	1,603,600	1,781,800

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





ROPERS

RELIABLE TO THE CORE



OPTIMA 3

General UHMWPE Synthetic Fiber Rope

- High strength
- General Purpose
- Available in multiple colors

OPTIMA 5

Premium UHMWPE Synthetic Fiber Rope

- Superior strength
- Twist resistant identification
- Various coating design

OPTIMA 7

Ultra High Performance HMPE Rope

- Ultra high strength
- Lighter weight
- Ultra low stretch



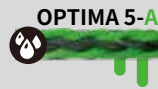
Coating Type



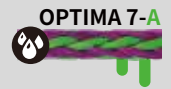
H type, Improve rope grip and stability



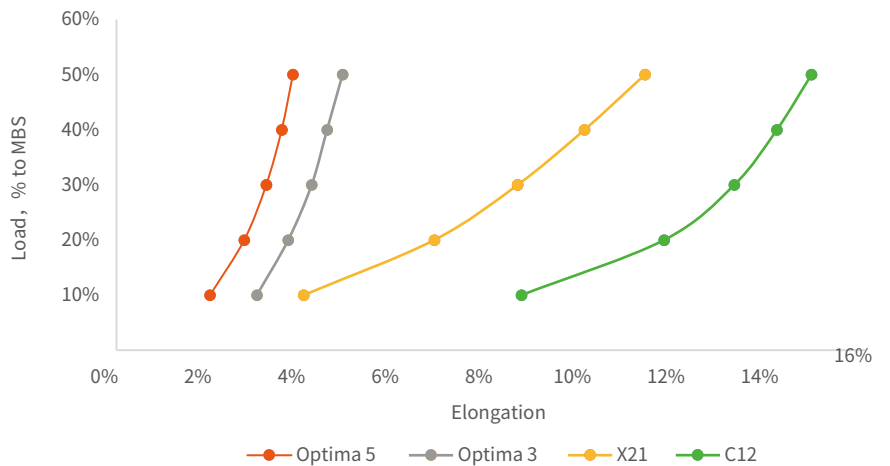
L type, Optimizes the rope's surface wear resistance, making it smoother



A type, functional for water repellent, oil repellent and antifouling



Elongation



ROPERS ROPE



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