

# 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.



Excellent wear characteristics



Floats



High strength



Easy to splice



### Technical Information



**0.98**  
SPECIFIC GRAVITY



**1×12 / 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	Weight	Minimum Strength Spliced Rope	Minimum Strength ISO Unspliced Rope
mm	kg/100m	ton	ton
<b>1×12</b>			
24	34.0	49.9	55.4
26	40.0	59.1	65.7
28	47.0	66.0	73.3
30	53.0	75.0	83.3
32	62.0	89.0	98.9
36	75.0	101.0	112.2
<b>12×12</b>			
40	95.0	131.0	145.6
44	116.0	144.0	160.0
48	129.0	161.1	179.0
52	158.0	195.0	216.7
56	172.0	218.0	242.2
60	215.0	245.0	272.2
64	230.0	271.1	301.2
68	256.0	300.0	333.0
72	319.0	356.0	395.6
76	350.0	388.0	431.1
80	388.0	428.6	476.2
88	516.0	568.0	631.1
96	630.0	690.0	766.7
100	685.0	728.9	809.9

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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