

HMPE gold

Setting new standards

High Modulus PolyEthylene rope is one of the strongest, most durable and innovative ropes on the market today. The rope is made from ultra-high molecular weight polyethylene.

The individual HMPE rope yarns are impregnated with a durable coating to reduce abrasion and extend the service life. The strength of HMPE rope is comparable diameter/diameter to steel wire rope. Available in two varieties: Single braided and cover braided rope.

- Superior strength/mass ratio
- Low elongation for reduced snap-back
- No shrinkage when wet - no water absorption
- Exceptional flex fatigue life
- Excellent abrasion resistance
- Torque free
- OCIMF approved product



Construction

Single braided with polyurethane coating:

- 12-strand (12x1)
- 8-strand (4x2)

Cover braided:

- 12-strand or 8-strand braided and PU impregnated core with 24- or 32-strand braided HT polyester cover
- Optional HMPE braided and PU impregnated cover available. The outer braided cover protects and compacts the load-bearing core.



Standard colour

Silver - single braided

White - polyester cover braided

Other colours on request

Properties

<i>Relative density</i>	Single braided: 0,97 (floats) Cover braided will vary from 0,97 to 1,15 depending on cover type
<i>Temperature resistance</i>	Melting point 150° C
<i>UV resistance</i>	Excellent - fully stabilized
<i>Extension</i>	4,5% at break (new rope) reduces to 2% (worked rope)
<i>Flexibility</i>	Light weight and exible for easy handling - good shape retention
<i>Chemical resistance</i>	HMPE excellent Polyester limited to alkalis

Length measured under reference tension according to ISO 9554. Minimum breaking load measured according to ISO 2307. Spliced ropes will on average have 10% lower minimum breaking load. Figures and information are for guidance purpose only.

Typical applications

Winch lines - mooring lines - tow lines - tug assist lines - deep water lift lines - pipe pull lines - wire rope replacements - heavy duty slings - shing lines - oceanographic/ seismic cables - adjustable slings - Chinese fingers

HMPE 12- AND 8-strand single braided

Diam. Ø	Mass	Min. breaking load	
		T	kN
mm	kg/100m		
4	0,9	1,53	14
6	2,3	3,77	37
8	4	6,65	65
10	6,1	10,4	102
12	8,7	15	147
14	11,7	20,4	200
16	15,1	26,5	260
18	19	31,6	310
20	23	38,7	380
24	33	53	520
26	38	61,2	600
28	45	69,3	680
30	51	78,5	770
32	58	88,7	870
34	65	97,	960
36	72	106	1040
38	80	118	1160
40	89	128	1260
42	98	136	1330
44	107	149	1460
46	116	163	1600
48	126	173	1700
50	137	186	1820
52	148	201	1970
56	171	230	2260
60	195	258	2530
64	221	290	2840
68	248	323	3170
72	278	359	3520
76	309	397	3890
80	343	438	4300
82	362	463	4541
88	417	530	5200
96	496	630	6180
104	586	723	7090
112	679	831	8150

HMPE with braided polyester cover

Diam. Ø	Mass	Min. breaking load	
		T	kN
mm	kg/100m		
20	27,4	27,6	271
22	33	34,8	341
24	38,5	41	402
26	44	48	471

28	51,7	56	549
30	58,1	65	637
32	65,7	75	736
34	73,2	84	824
36	80,6	93	912
38	89,2	103	1010
40	98,8	116	1140
44	118	141	1380
48	138	164	1610
52	161	196	1920
56	185	223	2190
60	209	257	2520
64	236	294	2880
68	264	332	3260
72	295	370	3630

Load VS Extension

