



MAGNARO® - HMPE

PRODUCT PROPERTIES

Material	HMPE
Construction	12-strand
Jacketed	No
Rotating	No
Color of Rope	Yellow
Specific Gravity	0.97 Floating
Melting Point	147°C
Abrasion Resistance	Excellent
U.V. Resistance	Excellent
Chemical Resistance	Excellent
Dry & Wet Conditions	Identical wet & dry strengths

FEATURES & BENEFITS

- Fibres are produced by gel-spinning ultra-high molecular weight polyethylene (UHMWPE)
- Very low coefficient of friction
- Higher strength comparable to conventional steel wire rope
- Weight up to 7 times lower than wire rope
- Easier handling
- Increased safety (low snap back)
- Our custom made high tenacity polyester Magnaro® Sleeve is pre-installed on both ends of the ropes, protecting the entire length of the eye against abrasion

APPLICATIONS ELONGATION

MOORING

- Main Line

TOWING

- Main Line
- Pennant

Magnaro® - HMPE	
Break Force	Elongation
10%	1.0%
30%	2.2%
50%	3.2%
100%	5.0%

Dia. mm	Circ. inch	Weight kg/100m	MBL (Unspliced)		MBL/LDBF*(Spliced)	
			Ton	kN	Ton	kN
16	2	16.0	27.5	270	24.8	243
18	2 1/4	20.8	35.0	343	31.5	309
20	2 1/2	25.5	41.5	407	37.4	366
22	2 3/4	30.5	50.0	491	45.0	442
24	3	35.8	58.0	569	52.2	512
26	3 1/4	41.0	66.0	647	59.4	583
28	3 1/2	46.5	74.0	726	66.6	653
30	3 3/4	52.0	81.5	800	73.4	720
32	4	57.0	88.5	868	79.7	781
34	4 1/4	64.4	100	980	89.9	882
36	4 1/2	68.0	104	1,020	93.6	918
38	4 3/4	75.8	116	1,136	104	1,022
40	5	87.0	127	1,246	114	1,121
42	5 1/4	95.9	140	1,373	126	1,236
44	5 1/2	104	152	1,491	137	1,342
46	5 3/4	114	166	1,628	149	1,465
48	6	121	179	1,756	161	1,580
50	6 1/4	131	194	1,905	175	1,714
52	6 1/2	142	206	2,021	185	1,819
54	6 3/4	153	222	2,179	200	1,961
56	7	163	236	2,315	212	2,084
58	7 1/4	175	248	2,428	223	2,185
60	7 1/2	175	252	2,472	227	2,225
64	8	200	282	2,766	254	2,490
68	8 1/2	226	316	3,100	284	2,790
72	9	254	348	3,414	313	3,073
76	9 1/2	283	387	3,796	348	3,417
80	10	313	422	4,140	380	3,726

*LDBF as per OCIMF MEG4 recommendations (spliced dry condition)