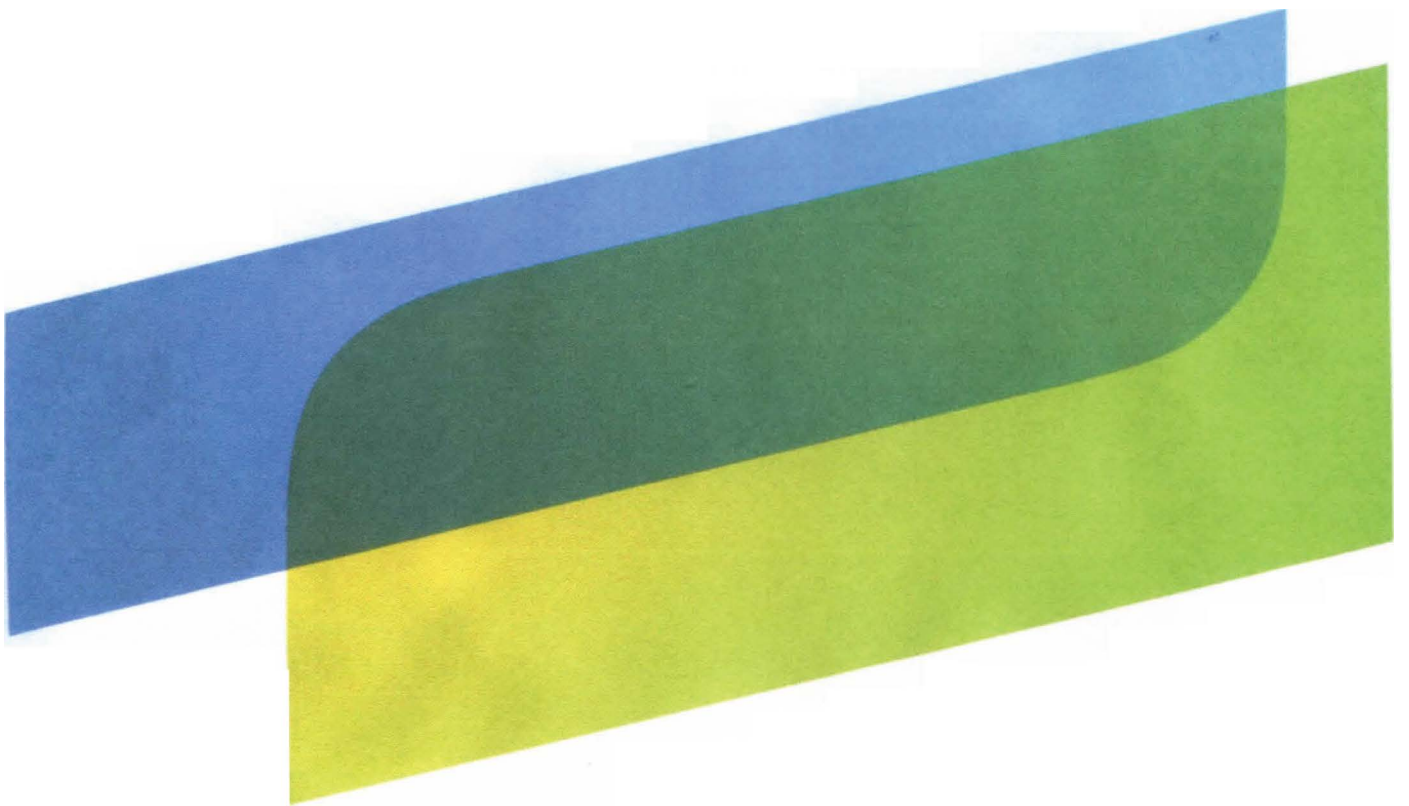


SYNTHETIC/NATURAL FIBER ROPES



KOBIZON

KOBIZON ENTERPRISE CO.

1. What is HI-MAN® rope?

This incredible rope made through special extrusion technology can be the right choice where ultra high breaking strength as well as super abrasion resistance are required.

- Much higher breaking strength than conventional PP rope.
- Super abrasion resistance.
- Lower elongation and better creep resistance.
- More stable under dynamic loading condition.
- Ultraviolet stability.
- Neither water absorb nor rot and mildew.
- Prominent Durability.
- To downsize diameters allows for greater working.

It has much higher breaking strength by about 32% than conventional polypropylene rope listed on BS specification.

This is HI-MAN® rope.

This premium product patent in Korea has been developed with our continuous research and latest technology, which has enabled us as a leading manufacturer and exporter in the field of mooring and related marine industries. This HI-MAN rope can be workable for all kind of marine applications(Mooring, Crab, Cargo Sling, Fishing and Leaded rope for trawl fishing) and also good for sea-cultivating as well as grounding.

2. Excellent quality

1) From the selection of raw material to final products, all of our products are being produced under the most strict quality control and recent updated technology.

2) Overall quality is most stable and consistent.

3) Confirming to major international specifications.

- | | |
|--|-------------------------------------|
| • KS(Korea Industrial Standard) | • JIS(Japanese Industrial Standard) |
| • ISO(International Standard Organization) | • BS(British Standard) |
| • DIN(Deutsche Standard) | • AS(Australian Standard) |

4) Major certificates are available.

- | | |
|---|------------------------------------|
| • KR(Korea Register of Shipping) | • NK(Nippon Kaiji Kyokai) |
| • LLOND'S(Lloyd's Register Shipping) | • BV(Bureau Veritas) |
| • DNV(Det Norske Veritas) | • ABS(American Bureau of Shipping) |
| • KST(Korea Ship Safety Technology Authority) | |

HI-MAN

Length : 200M

SIZE			Hi-Man 3-st, 4-st			Hi-Man 8-st	
Dia (mm)	Dia (Inch)	Circ (Inch)	Weight (kg)	M.B.L (ton)		Weight (kg)	M.B.L (ton)
				M-Lay	MS-Lay		
4	5/32	1/2	-	-	-	-	-
5	3/16	5/8	-	-	-	-	-
6	1/4	3/4	3.50	0.62	0.68	-	-
7	9/32	7/8	4.75	0.84	0.92	-	-
8	5/16	1	6.20	1.10	1.21	-	-
9	3/8	1-1/8	7.80	1.32	1.45	-	-
10	13/32	1-1/4	9.60	1.57	1.73	-	-
11	7/16	1-3/8	11.7	1.90	2.10	-	-
12	15/32	1-1/2	13.9	2.23	2.45	-	-
14	9/16	1-3/4	18.8	3.05	3.36	-	-
16	5/8	2	24.2	3.77	4.15	-	-
18	13/32	2-1/4	30.8	4.81	5.29	-	-
20	13/16	2-1/2	38.0	5.80	6.40	-	-
22	7/8	2-3/4	46.0	6.95	7.64	-	-
24	15/16	3	54.7	8.13	8.94	-	-
26	1-1/32	3-1/4	63.8	9.40	10.4	-	-
28	1-1/8	3-1/2	73.6	10.7	11.8	-	-
30	1-3/16	3-3/4	85.2	12.2	13.4	-	-
32	1-1/4	4	96.7	13.5	14.9	92	16.9
34	1-11/32	4-1/4	110.0	15.4	16.9	104	19.0
36	1-7/16	4-1/2	122.0	16.9	18.6	117	21.2
38	1-1/2	4-3/4	135.0	18.7	20.6	130	23.4
40	1-19/32	5	152.0	20.5	22.5	144	25.6
42	1-21/32	5-1/4	167.0	22.5	24.8	160	28.6
45	1-25/32	5-5/8	191.0	25.0	27.6	184	31.8
48	1-7/8	6	218.0	28.6	31.5	208	35.9
50	2	6-1/4	236.0	31.0	34.1	226	39.0
52	2-1-16	6-1/2	256.0	33.2	36.2	244	41.5
55	2-5/32	6-7/8	286.0	36.5	40.2	274	45.8
56	2-1/14	7	296.0	37.8	41.6	284	47.5
60	2-3/8	7-1/2	340.0	43.3	47.6	326	54.5
64	2-1/2	8	387.0	49.0	53.9	370	61.5
65	2-9/16	8-1/8	399.0	50.5	55.6	382	63.5
70	2-3/4	8-11/16	463.0	58.1	63.9	444	73.2
72	2-7/8	9	490.0	61.5	67.7	468	77.2
75	2-31/32	9-1/4	531.0	66.6	73.3	510	83.5
80	3-5/32	10	605.0	75.6	83.2	580	95.0
85	3-11/32	10-1/2	683.0	85.3	93.8	656	107.0
88	3-15/32	11	732.0	91.4	100.0	702	115.0
90	3-9/16	11-1/8	765.0	95.5	105.0	735	120.0
95	3-3/4	11-3/4	853.0	105.0	116.0	818	132.0
96	3-25/32	12	871.0	107.0	118.0	834	135.0
100	4	12-1/2	945.0	116.0	128.0	907	146.0
105	4-1/8	13	-	-	-	1,000	160.0
110	4-3/8	14	-	-	-	1,098	174.0
120	4-3/4	15	-	-	-	1,300	207.0

- The above table is based on Mamho standards, length and lay can be adjustable to request.
- M- Lay : Medium Lay
- MS-Lay : Medium Soft Lay
- M.B.L : Minimum Breaking Load

Physical Properties

- Specific Gravity : 0.93 - Floats on seawater
- Temperature Used : Stable up to -30 ~ 100 °C . Melts at 162°C
- Ultraviolet Ray : Satisfactory when UV 0.2% processed
- Internal Chemical Properties : Most resistant to acid, alkaline and oil, etc

POLYPROPYLENE

Length : 200M

SIZE			Manline, PP Mono, PP Multi 3-st, 4-st			Manline, PP Mono 8-st		PP Multi 8-st	
Dia (mm)	Dia (Inch)	Circ (Inch)	Weight (kg)	M.B.L (ton)		Weight (kg)	M.B.L (ton)	Weight (kg)	M.B.L (ton)
				M-Lay	MS-Lay				
4	5/32	1/2	1.50	0.22	0.27	-	-	-	-
5	3/16	5/8	2.30	0.34	0.42	-	-	-	-
6	1/4	3/4	3.50	0.50	0.62	-	-	-	-
7	9/32	7/8	4.75	0.67	0.84	-	-	-	-
8	5/16	1	6.20	0.85	1.10	-	-	-	-
9	3/8	1-1/8	7.80	1.06	1.32	-	-	-	-
10	13/32	1-1/4	9.60	1.29	1.57	-	-	-	-
11	7/16	1-3/8	11.7	1.54	1.90	-	-	-	-
12	15/32	1-1/2	13.9	1.80	2.23	-	-	-	-
14	9/16	1-3/4	18.8	2.40	3.05	-	-	-	-
16	5/8	2	24.2	3.00	3.77	-	-	-	-
18	13/32	2-1/4	30.8	3.80	4.81	-	-	-	-
20	13/16	2-1/2	38.0	4.50	5.80	-	-	-	-
22	7/8	2-3/4	46.0	5.60	6.95	-	-	-	-
24	15/16	3	54.7	6.50	8.13	-	-	-	-
26	1-1/32	3-1/4	63.8	7.50	9.40	-	-	-	-
28	1-1/8	3-1/2	73.6	8.50	10.7	-	-	-	-
30	1-3/16	3-3/4	85.2	9.90	12.2	-	-	-	-
32	1-1/4	4	96.7	11.00	13.5	92	15.0	96	13.5
34	1-11/32	4-1/4	110.0	12.4	15.4	104	17.0	109	15.2
36	1-7/16	4-1/2	122.0	13.7	16.9	117	19.0	122	17.0
38	1-1/2	4-3/4	135.0	15.1	18.7	130	20.8	137	18.8
40	1-19/32	5	152.0	16.7	20.5	144	22.7	152	20.5
42	1-21/32	5-1/4	167.0	18.5	22.5	160	25.0	167	22.6
45	1-25/32	5-5/8	191.0	20.7	25.0	184	28.4	191	25.6
48	1-7/8	6	218.0	23.6	28.6	208	31.8	218	28.6
50	2	6-1/4	236.0	25.5	31.0	226	34.3	236	30.9
52	2-1/16	6-1/2	256.0	27.3	33.2	244	36.9	256	33.1
55	2-5/32	6-7/8	286.0	30.0	36.5	274	40.7	286	36.7
56	2-1/4	7	296.0	31.0	37.8	284	42.0	296	37.9
60	2-3/8	7-1/2	340.0	35.5	43.3	326	48.0	340	43.3
64	2-1/2	8	387.0	40.0	49.0	370	54.4	387	49.0
65	2-9/16	8-1/8	399.0	41.0	50.5	382	56.0	399	50.6
70	2-3/4	8-11/16	463.0	47.0	58.1	444	64.6	463	58.4
72	2-7/8	9	490.0	50.3	61.5	468	68.0	490	61.5
75	2-31/32	9-1/4	531.0	53.5	66.6	510	74.2	531	66.8
80	3-5/32	10	605.0	60.5	75.6	580	84.2	605	75.6
85	3-11/32	10-1/2	683.0	68.0	85.3	656	94.8	683	85.1
88	3-15/32	11	732.0	72.2	91.4	702	101.0	732	90.8
90	3-9/16	11-1/8	765.0	75.0	95.5	735	106.0	765	94.8
95	3-3/4	11-3/4	853.0	83.0	105.0	818	117.0*	853	105.0
96	3-25/32	12	871.0	84.7	107.0	834	119.0	871	107.0
100	4	12-1/2	945.0	91.5	116.0	907	129.0	945	115.0
105	4-1/8	13	-	-	-	1,000	147.0	1,042	126.0
110	4-3/8	14	-	-	-	1,098	153.0	1,144	138.0
120	4-3/4	15	-	-	-	1,300	186.0	1,360	163.0

• The above table is based on Mamho standards, length and lay can be adjustable to request.

• M- Lay : Medium Lay

• MS-Lay : Medium Soft Lay

• M.B.L : Minimum Breaking Load

Physical Properties

• Specific Gravity : 0.91 - Floats on seawater

• Temperature Used : Stable up to -30 ~ 100 °C. Melts at 162°C

• Ultraviolet Ray : Satisfactory when UV 0.2% processed

• Internal Chemical Properties : Most resistant to acid, alkaline and oil, etc

NYLON, POLYESTER

Length : 200M

SIZE			NYLON 3-st, 4-st		NYLON 8-st		POLYESTER 3-st		POLYESTER 8-st	
Dia (mm)	Dia (Inch)	Circ (Inch)	Weight (kg)	M.B.L (ton)	Weight (kg)	M.B.L (ton)	Weight (kg)	M.B.L (ton)	Weight (kg)	M.B.L (ton)
4	5/32	1/2	1.94	0.33	-	-	2.36	0.30	-	-
5	3/16	5/8	3.00	0.55	-	-	3.86	0.40	-	-
6	1/4	3/4	4.43	0.75	-	-	5.4	0.56	-	-
7	9/32	7/8	6.00	1.02	-	-	7.5	0.77	-	-
8	5/16	1	7.76	1.35	-	-	9.6	1.02	-	-
9	3/8	1-1/8	9.80	1.72	-	-	12.4	1.27	-	-
10	13/32	1-1/4	12.1	2.08	-	-	15.2	1.59	-	-
11	7/16	1-3/8	14.6	2.54	-	-	18.6	1.93	-	-
12	15/32	1-1/2	17.6	3.00	-	-	22	2.27	-	-
14	9-16	1-3/4	23.9	4.10	-	-	29.6	3.18	-	-
16	5/8	2	31.0	5.30	-	-	39	4.10	-	-
18	13/32	2-1/4	38.9	6.70	-	-	49	5.10	-	-
20	13/16	2-1/2	48.0	8.30	-	-	60.6	6.40	-	-
22	7/8	2-3/4	57.9	10.0	-	-	73.4	7.77	-	-
24	15/16	3	69.5	12.0	-	-	87.4	9.20	-	-
26	1-1/32	3-1/4	81.3	14.0	-	-	102	10.7	-	-
28	1-1/8	3-1/2	94.6	15.8	-	-	118	12.3	-	-
30	1-3/16	3-3/4	108.0	17.8	-	-	136	13.7	-	-
32	1-1/4	4	123.0	20.0	123	22.0	155	15.7	155	17.2
34	1-11/32	4-1/4	139.0	22.6	139	24.8	176	17.5	176	19.2
36	1-7/16	4-1/2	155.0	24.9	155	27.7	196	19.4	196	21.2
38	1-1/2	4-3/4	174.0	27.4	174	31.2	220	21.6	220	23.8
40	1-19/32	5	191.0	30.0	191	34.6	243	24.0	243	26.4
42	1-21/32	5-1/4	213.0	33.0	213	37.8	268	26.1	268	28.7
45	1-25/32	5-5/8	244.0	37.0	244	43.0	308	29.8	308	32.7
48	1-7/8	6	277.0	42	277	48.7	350	33.6	350	36.8
50	2	6-1/4	302.0	45.5	302	52.5	380	36.3	380	39.9
52	2-16/16	6-1/2	328.0	49.0	328	56.9	410	38.9	410	42.7
55	2-5/32	6-7/8	367.0	54.2	367	62.6	459	42.8	459	47.0
56	2-1/4	7	380.0	56.0	380	64.6	476	44.8	476	48.6
60	2-3/8	7-1/2	438.0	63.8	438	73.5	546	49.9	546	54.8
64	2-1/2	8	498.0	72.0	498	83.0	622	58.0	622	62.8
65	2-9/16	8-1/8	513.0	74.2	513	86.0	642	59.0	642	64.9
70	2-3/4	8-11/16	596.0	85.5	596	98.7	745	68.1	745	74.9
72	2-7/8	9	630.0	90.0	630	104.0	786	72.1	786	79.2
75	2-31/32	9-1/4	683.0	97.6	683	111.0	855	78.2	855	86.0
80	3-5/32	10	777.0	110.0	777	127.0	970	88.5	970	97.2
85	3-11/32	10-1/2	874.0	124.0	874	142.0	1,090	98.8	1,090	109.0
88	3-15/32	11	936.0	132.0	936	149.0	1,170	105.0	1,170	116.0
90	3-9/16	11-1/8	980.0	137.0	980	156.0	1,220	110.0	1,220	121.0
95	3-3/4	11-3/4	1,092	151.0	1,092	172.0	1,370	123.0	1,370	135.0
96	3-25/32	12	1,115	154.7	1,115	175.0	1,400	126.0	1,400	137.0
100	4	12-1/2	1,210	167.4	1,210	192.0	1,519	136.7	1,519	151.0
105	4-1/8	13	-	-	1,334	207.0	-	-	1,675	162.0
110	4-3/8	14	-	-	1,464	226.0	-	-	1,838	176.0
120	4-3/4	15	-	-	1,740	262.0	-	-	2,187	210.0

• The above table is based on Mamho standards, length and lay can be adjustable to request.

Physical Properties(NYLON)

- Specific Gravity : 1.14 - Sinks on seawater
- Temperature Used : Melts at 220°C
- Ultraviolet Ray : Excellent
- Internal Chemical Properties : Resistant alkaline and oil, etc but weak to acid

Physical Properties(POLYESTER)

- Specific Gravity : 1.38 - Sinks on seawater
- Temperature Used : Used up to -40 °C • Melts at 260°C
- Ultraviolet Ray : Most Excellent
- Internal Chemical Properties : Resistant to acid and oil, etc but weak to alkaline

PE, PD WALL

Length : 200M

SIZE			PE 3-st		PD WALL 3-st		SUPER PD WALL 8-st	
Dia (mm)	Dia (Inch)	Circ (Inch)	Weight (kg)	M.B.L (ton)	Weight (kg)	M.B.L (ton)	Weight (kg)	M.B.L (ton)
4	5/32	1/2	1.60	0.20	-	-	-	-
5	3-/16	5/8	2.50	0.30	-	-	-	-
6	1/4	3/4	3.60	0.42	5.20	0.68	-	-
7	9/32	7/8	5.00	0.55	5.81	0.83	-	-
8	5/16	1	6.40	0.70	6.42	0.96	-	-
9	3/8	1-1/8	8.00	0.88	10.2	1.59	-	-
10	13/32	1-1/4	10.0	1.10	11.5	1.77	-	-
11	7/16	1-3/8	12.4	1.36	12.8	1.95	-	-
12	15/32	1-1/2	15.0	1.54	16.0	2.36	-	-
14	9/16	1-3/4	19.0	2.09	20.4	3.14	-	-
16	5/8	2	25.0	2.80	25.8	3.82	-	-
18	13/32	2-1/4	32.0	3.47	33.8	4.95	-	-
20	13/16	2-1/2	40.0	4.27	41.7	6.08	-	-
22	7/8	2-3/4	48.0	5.08	50.0	7.18	-	-
24	15/16	3	57.0	6.10	60.1	8.48	-	-
26	1-1/32	3-1/4	67.0	6.93	70.2	9.79	-	-
28	1-1/8	3-1/2	78.0	8.21	80.4	11.1	-	-
30	1-3/16	3-3/4	90.0	9.48	87.8	11.9	-	-
32	1-1/4	4	102.0	10.7	95.2	12.7	117	20.4
34	1-11/32	4-1/4	115.0	12.0	108.0	14.4	133	23.2
36	1-7/16	4-1/2	129.0	13.4	121.0	16.0	148	26.0
38	1-1/2	4-3/4	144.0	15.0	134.0	17.7	166	29.2
40	1-19/32	5	159.0	16.3	149.0	21.0	183	32.0
42	1-21/32	5-1/4	176.0	18.0	166.0	23.0	203	35.5
45	1-25/32	5-5/8	203.0	20.8	190.0	26.2	234	40.5
48	1-7/8	6	229.0	22.8	216.0	29.1	264	44.8
50	2	6-1/4	249.0	24.7	236.0	31.2	287	48.4
52	2-1/1	6-1/2	269.0	26.6	252.0	33.5	310	52.0
55	2-5/32	6-7/8	300.0	29.6	282.0	37.1	345	57.6
56	2-1/4	7	312.0	30.4	292.0	37.8	360	59.4
60	2-3/8	7-1/2	360.0	34.4	334.0	43.6	400	66.0
64	2-1/2	8	412.0	39.1	378.0	48.8	455	75.0
65	2-9/16	8-1/8	425.0	40.2	389.0	50.2	466	77.0
70	2-3/4	8-11/16	492.0	46.5	449.0	58.2	540	89.0
72	2-7/8	9	521.0	49.1	471.0	61.0	566	95.0
75	2-31/32	9-1/4	565.0	53.2	511.0	66.9	617	102.0
80	3-5/32	10	646.0	60.4	578.0	75.0	700	117.0
85	3-11/32	10-1/2	729.0	68.1	-	-	790	130.0
88	3-15/32	11	782.0	73.0	-	-	842	140.0
90	3-9/16	11-1/8	818.0	76.4	-	-	882	146.0
95	3-3/4	11-3/4	911.0	85.0	-	-	982	162.0
96	3-25/32	12	930.0	85.4	-	-	1,000	165.0
100	4	12-1/2	1009.0	92.6	-	-	1,088	180.0
105	4-1/8	13	-	-	-	-	1,200	198.4
110	4-3/8	14	-	-	-	-	1,318	224.0
120	4-3/4	15	-	-	-	-	1,560	255.0

• The above table is based on Mamho standards, length and lay can be adjustable to request.

Physical Properties(PE)

- Specific Gravity : 0.95 - Floats on seawater
- Temperature Used : Stable up to -70 °C ~ 70°C.
- Melts at 135°C
- Ultraviolet Ray : Satisfactory when UV 0.2% processed
- Internal Chemical Properties : Most resistant to acid, alkaline and oil, etc

Physical Properties(PD)

- Specific Gravity : 1.01 ~ 1.12 (varies according to standards) • Melts at 260°C
- Temperature Used : Used up to -30 °C
- Ultraviolet Ray : Very Excellent
- Internal Chemical Properties : Resistant acid and oil, etc but weak to alkaline

PP LEADED ROPE

Length : 190 M			
Dia (mm)	Weight (kg)	M.B.L(ton)	
		HIMAN	Manline
8	9.5	0.99	0.77
9	12.0	1.19	0.95
10	15.0	1.40	1.15
12	21.0	2.00	1.62
14	28.5	2.60	2.16
16	37.5	3.30	2.70
18	48.0	4.20	3.42
20	59.0	4.90	4.10
22	71.0	5.90	5.04
24	82.5	6.80	5.85
26	99.0	7.90	6.75
28	115	9.10	7.65
30	127	10.3	8.90
32	142	11.5	9.90
34	163	13.00	11.2
36	182	14.4	12.3
38	203	15.9	13.6
40	225	17.4	15.0

- It sinks under the water as containing about 30% of lead.
- Special leads are being used so it is not exposed out side.
- Lead ratio can be adjustable according to request.

POLYTEX ROPE

Length : 200 M		
Dia (mm)	Weight (kg)	M.B.L (ton)
4	1.72	0.20
5	2.62	0.30
6	3.86	0.40
8	6.94	0.70
9	8.60	0.90
10	10.7	1.10
12	15.8	1.42
14	20.6	1.90
16	27.0	2.43
18	34.4	3.03
20	42.8	3.68
22	51.4	4.40
24	61.0	5.17
26	71.7	6.00
28	83.4	6.88
30	96.0	7.83
32	108	8.82
34	122	9.88

- Less slip as it is combined with 70% of polyethylene and 30% of vinylon.
(or polyester spun)
- Polyethylene contents can be adjustable.

6-STRAND COMPOUND ROPE

Wire Strand Const.		1 X12 Weight		1 X19 Weight		1 X24 Weight	
Dia (mm)	Wire Dia	PP (Kg)	VINYLON (Kg)	PP (Kg)	VINYLON (Kg)	PP (Kg)	VINYLON (Kg)
16	2.7	50	55	71	76	62	68
18	3	63	69	84	91	79	85
20	3.3	78	86	103	111	97	105
22	4	103	112	141	150	124	134
24	4.7	132	142	181	191	161	172
26	5.3	165	177	226	238	202	213
28	6	202	215	273	286	252	264
30	6.7	243	257	342	355	310	323
32	7.3	288	303	391	406	365	380
34	8	337	353	462	478	433	449
36	8.3	370	388	505	524	459	478
38	8.7	406	427	553	574	504	524
40	10	507	526	729	749	665	684

- Strand diameters and constructions are adjustable according to request.

CRAB ROPE

SIZE(DIA)		LAY	WEIGHT	M.B.L(Lbs)	
(inch)	(mm)		Lbs/100ft	HIMAN	MANLINE
5/16	8.0	Crab	2.67	1,900	1,900
3/8	9.5		3.50	3,100	3,050
7/16	11.0		4.75	4,500	3,820
1/2	12.5		6.08	5,700	5,150
9/16	14.0		7.17	6,600	5,700
5/8	16.0		8.60	7,200	6,300
3/4	19.0		12.9	10,500	8,400
13/16	20.0		14.6	11,900	9,450
7/8	22.0		17.9	14,100	11,500
1	25.0		20.0	15,700	12,600
1.1/8	28.0	Firm	25.5	18,000	14,800
7/8	22.0		17.0	16,000	12,500
1	25.0		19.2	18,100	14,000
1.1/8	28.0		23.8	23,300	18,500
1.1/4	32.0		28.2	27,800	24,400

- More strength.
- Less elongation and abrasion.
- The right choice.

PP SLING ROPE

Length : 200 M			
SIZE (mm)	Weigth (Kg)	M.B.L(ton)	
		HIMAN	MANLINE
14	18.2	4.0	3.30
16	23.2	5.0	4.10
18	29.8	6.4	5.30
19	32.8	7.3	5.80
20	35.8	7.8	6.40
22	44.0	9.3	7.60
24	52.0	10.8	8.90
26	61.5	12.1	10.3
28	71.0	13.8	11.8
30	81.5	15.6	13.4
32	92.0	17.5	14.8
34	105.0	19.6	16.9
36	118.0	21.9	18.6
38	130.0	23.9	20.6

- Hi-man rope is the best choice for the heavy weight lifting as of its own incomparable breaking strength and less elongation.
- Soft, so easy to handle.

VINYLON, SISAL & MANILA ROPE

Length : 200 M

SIZE (mm)	VINYLON		SISAL & MANILA	
	Weight (Kg)	M.B.L (ton)	Weight (Kg)	M.B.L (ton)
4	2.00	0.15	2.20	0.12
5	3.10	0.23	3.40	0.18
6	4.50	0.33	5.00	0.26
7	6.10	0.43	7.00	0.36
8	7.90	0.56	9.50	0.48
9	10.0	0.70	12.0	0.61
10	12.4	0.95	14.0	0.63
11	15.1	1.16	17.0	0.77
12	17.8	1.37	21.0	0.95
14	24.2	1.83	28.0	1.28
16	31.5	2.34	38.0	1.80
18	39.8	2.92	44.0	2.14
20	49.0	3.55	55.0	2.85
22	59.2	4.24	66.0	3.41
24	70.4	4.98	80.0	4.07
26	82.5	5.78	94.0	4.73
28	95.6	6.64	106.0	5.32
30	109.0	7.55	125.0	6.10
34	140.0	9.53	159.0	7.79
36	157.0	10.6	178.0	8.70
38	175.0	11.7	199.0	9.72
40	194.0	12.9	220.0	10.5
45	245.0	16.0	278.0	13.2
48	279.0	17.9	317.0	14.8
50	302.0	19.5	345.0	16.1
55	355.0	23.3	417.0	19.4
56	370.0	24.3	432.0	19.9
60	433.0	27.4	496.0	22.6
64	493.0	30.9	564.0	25.7
65	508.0	31.8	581.0	26.4
70	589.0	36.5	674.0	30.6
75	675.0	41.5	773.0	35.4
80	767.0	46.8	880.0	38.8

Physical Properties(VINYLON)

- Specific Gravity : 1.28 - sinking in sea-water
- Temperature Used : Melts at 240°C
- Ultraviolet Ray : Excellent
- Internal Chemical Properties : Excellent to alkali and oil but limited to acid

PD 2-GREEN COMBO

PD 2-GREEN COMBO 3-st						
SIZE			WEIGHTH		M.B.L	
Dia. Inch	Dia. mm	Circ. Inch	Lbs per 100Ft	Kg per 100M	Lbs	Kg
1/4"	6	3/4"	1.73	2.57	1,650	748
5/16"	8	1"	2.88	4.29	2,640	1,200
3/8"	9	1.1/8"	4.11	6.12	3,700	1,680
7/16"	11	1.3/8"	5.42	8.07	4,880	2,220
1/2"	13	1.1/2"	6.66	9.91	6,300	2,860
9/16"	14	1.3/4"	8.1	12	7,500	3,410
5/8"	16	2"	10.7	15.9	10,500	4,770
3/4"	19	2.1/4"	14.2	21.1	13,500	6,140
7/8"	22	2.3/4"	19.5	29	18,200	8,270
1"	25	3"	23.4	34.8	22,000	10,000
1.1/8"	28	3.1/2"	30.1	44.8	27,400	12,400
1.1/4"	32	4"	33.7	50.1	28,000	12,700
1.1/2"	38	4.3/4"	47.8	71.1	36,000	16,400

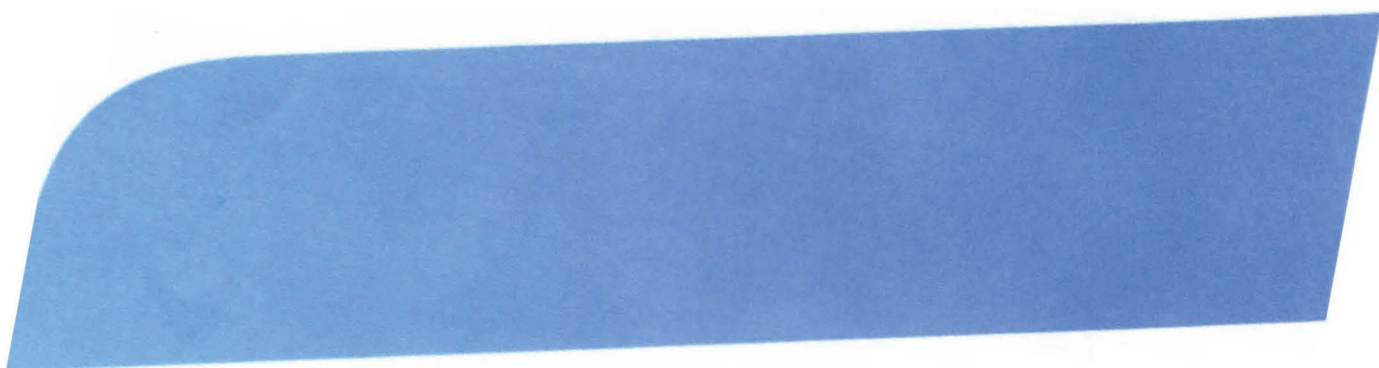
Physical Properties(PD 2-GREEN COMBO)

- Specific Gravity : 1.07 ~ 1.28
(varies according to standards)
- Temperature Used : Used up to -30 °C
Melts at 260°C
- Ultraviolet Ray : Excellant
- Internal Chemical Properties
: Generally good except in the presence of alkalis

TYPICAL APPLICATIONS & FEATURE

Items	Specific Gravity	Elongation at Breaking	Characteristics	Usager
HI-MAN Rope	0.93	26%	• 32% higher than PP in breaking strength. (8-strand rope) • Excellent abrasion resistance. • Premium product with continuous R&D.	• Mooring • Crab line • Sling • Fishing
Manline Rope	0.92	28%	• One of the lightest rope. • Excellent abrasion resistance. • Good resistance to chemicals.	• Mooring • Fishing • Sling • Crab line
PP Mono Rope	0.92	32%	• Higher abrasion resistance. • Good resistance to chemicals.	• Mooring • Fishing • Net line
PP Multi Rope	0.91	44%	• One of the lightest rope. • Very flexible, so easy to handle.	• Mooring • Tow line • Tug line • Sporting line
Nylon Rope	1.14	50%	• One of the strongest of all synthetic ropes. • Good abrasion resistance. • Superior recovery from stretch. • High energy absorption.	• Mooring • Tow line • Sea-Anchor • Tail rope • Tug line
Polyester Rope	1.38	35%	• Breaking strength is very close to nylon when steady force is applied. • Best heat resistance. • Excellent abrasion resistance and ultraviolet resistance.	• Mooring • Tow line • Yacht line • Long line
PE Mono Rope	0.95	38%	• It floats on the water. • 1.5 times stronger than manila in its breaking strength. • 30% lighter than manila.	• Fishing • Sporting line • Fishing Net
Vinylon Rope	1.28	37%	• Similar to cotton fiber • 1.2 times stronger than manila rope. • 15% lighter than manila rope. • Excellent ultraviolet resistance.	• Fishing • Boat line • Truck line
Sisal & Manila Rope	1.45	18%	• Excellent abrasion resistance. • Less elongation.	• Training line • Cargo Net

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