



OLIVEIRA

Experienced Ropemakers since 1825

Synthetic Ropes



All Ropes Manufactured in-house



WireCo[®]
WorldGroup

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X-TREMA LINE

Highest strength at lowest weight

PRODUCT DESCRIPTION

X-TREMA LINE is a 12-strand braided rope made from genuine Dyneema® SK78 fiber. X-TREMA LINE is unprecedented in its strength-weight ratio, providing break strengths comparable to steel wire rope, at only about 1/7th of the weight and at similar diameters.

The unique properties of the Dyneema® yarn provide X-TREMA LINE with excellent resistance to abrasion, UV, salt water and most chemicals. Further to that, X-TREMA LINE has a specific gravity of only 0.975, making it float on water and extremely light, providing unparalleled ergonomics to those handling the rope and allowing for faster operations both in ports and on open sea.

X-TREMA LINE is the rope of choice for industry experts to replace conventional ropes, even in the harshest conditions in Marine and Offshore environments.

Whether you are mooring, tugging, lifting or installing, X-TREMA LINE will provide you with unbeatable efficiency and performance.

MAIN CHARACTERISTICS

Specific gravity:	0,975 (floats)
Water Absorption:	0%
Melting point:	145°C (293 F)
Temperature Resistance:	70°C (158 F)
TCLL:	100%
Chemical Resistance:	Excellent
Abrasion Resistance:	Excellent
Bending Fatigue:	Excellent
UV Resistance:	Excellent
Dry & Wet Conditions:	Wet Strength equals Dry Strength
Production and Construction:	Based on ISO 10325
Testing method:	ISO 2307

APPLICATIONS

Towing
Lifting
Fishing-Gilson, Bridles
Mooring systems
Offshore Installation
Mooring winches



X-TREMA LINE

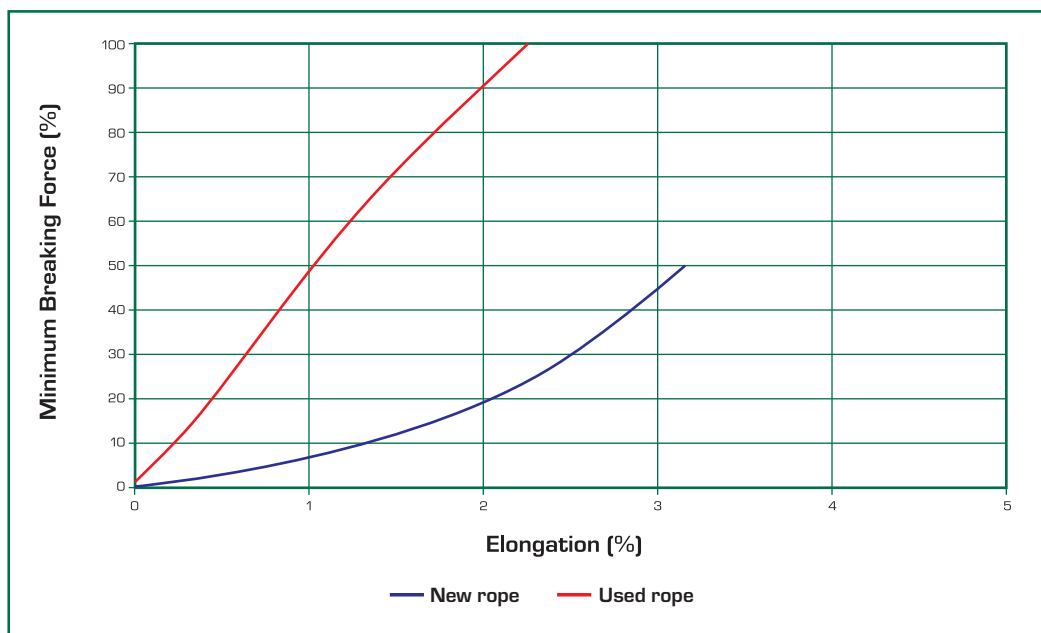
Size Nr.	Diameter mm	Weight kg/ 100m	MBF kN	MBF Tonf
0,75	6	2,2	37	3,7
1	8	3,6	60	6,1
1,25	10	5,8	9,9	10,1
1,5	12	8,7	159	16,2
1,75	14	10,2	185	18,9
2	16	14,1	255	26
2,25	18	17,4	313	31,9
2,5	20	20,6	374	38,1
2,75	22	26,1	469	47,8
3	24	30,9	544	55,5
3,25	26	37	640	65,3
3,5	28	43,2	730	74,4
3,75	30	48,4	810	82,6
4	32	55,3	910	92,8
4,25	34	62,2	1010	103
4,5	36	68	1090	111
4,75	38	76	1210	123
5	40	85,1	1335	136
5,5	44	104	1590	162
6	48	124	1885	192
6,5	52	153	2260	230
7	56	170	2475	252
7,5	60	200	2875	293
8	64	228	3220	328
8,5	68	254	3550	362
9	72	285	3925	400
9,5	76	307	4200	428
10	80	336	4545	463
11	88	405	5380	549
12	96	474	6205	633



Standard colour Orange
other colours available
upon request

Others sizes available upon request
MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



UHMPE

PRODUCT DESCRIPTION

This 12 strand braided UHMPE rope is combining the long term experiences of two major global leading companies in yarn manufacturing and rope making. The UHMPE yarns are manufactured by DSM and the rope is made by WireCo.

UHMPE is a floating rope with little elongation properties. It has a yellow coating and good UV, abrasion and chemical resistances.

APPLICATIONS

General Purposes

Mooring systems

Towing lines

Offshore Installation

Fishing-Gilson, Bridles

Lifting

Winches

MAIN CHARACTERISTICS

Specific gravity:	0,98 (it Floats)
Water Absorption:	0%
Melting Point:	approx 147 °C
TCLL:	100%
Chemical resistance:	good
Abrasion resistance:	good
Bending Fatigue:	good
UV Resistance:	good
Production and Construction:	Based on ISO 10325
Testing method:	ISO 2307



Standard colour Yellow

UHMPE

Size Nr.	Diameter mm	Weight kg/ 100m	MBF kN	MBF Tonf
0,75	6	2,3	33	3,4
1	8	3,9	59	6,0
1,25	10	5,9	93	9,5
1,5	12	9,3	132	13,4
1,75	14	10,7	177	18
2	16	14	235	24,0
2,25	18	18	292	29,8
2,5	20	21,5	361	36,8
2,75	22	28	434	44,3
3	24	33,5	514	52,4
3,25	26	37,5	590	60,2
3,5	28	43,5	676	68,9
3,75	30	51,5	761	77,6
4	32	59	856	87,3
4,25	34	65	956	97,5
4,5	36	71	1040	106,0
4,75	38	80	1150	117,3
5	40	88,5	1260	128,5
5,5	42	98,5	1370	139,7
5,75	44	109	1500	153,0
6	48	126	1790	182,5
6,5	52	149	2080	212,1
7	56	176	2400	244,7
7,5	60	202	2720	277,4
8	64	230	3100	316,1
8,5	68	259	3480	354,9
9	72	290	3870	394,6
10	80	358	4350	443,6
11	88	430	5130	523,1
12	96	510	6010	612,8

Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



OCEAN TWELVE®

PRODUCT DESCRIPTION

Ocean Twelve® is the newest rope developed by OLIVEIRA SA, with very high performance on strength and abrasion. The rope is 100% made with new yarn composition, which is totally innovative when compared to traditional polypropylene and polysteel. On Ocean Twelve®, we combine soft, strong and easy handling rope. The rope is 12 strands braided and we produce from 16 mm to 80 mm in full 220 m coils. The 12 strands construction makes it more round and regular when compared to the traditional 8 strands.

Ocean Twelve® is the ideal rope for mooring applications, being a good choice for winches.

We supply the rope with company certificate, and by request BV, DNV, GL and Lloyds certifications can be obtained.

APPLICATIONS

- Towing
- Mooring
- General purposes
- Winch Lines
- Inland shipping
- River ships
- Offshore
- Fishing
- Cruise vessels
- Yachting

MAIN CHARACTERISTICS

Construction:	12 Strand
Melting Point:	140°C
Specific gravity:	+/- 0,93
Abrasion resistance:	very good
Chemical resistance:	good
Ultraviolet resistance:	very good
Floating:	yes
Water absorption:	0%
Flexibility:	remains flexible in wet and at low temperatures
Splice conditions:	easy
Snap-back:	low
Production and Construction:	Based on ISO 10572
Testing method:	ISO 2307



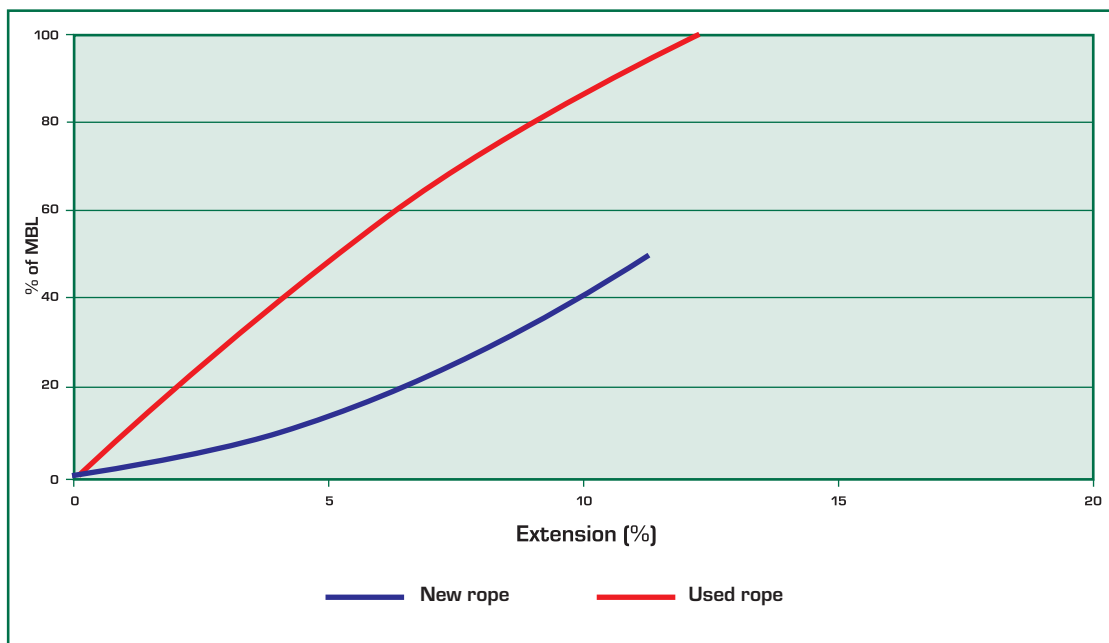
OCEAN TWELVE®

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
2	16	12,8	48,2	4,92
2,5	20	19,7	73,2	7,46
3	24	28,1	103	10,5
3,5	28	38,2	139	14,2
4	32	50	180	18,4
4,5	36	63	226	23
5	40	78,1	278	28,3
5,5	44	94,2	333	34
6	48	112	394	40,2
6,5	52	132	460	46,9
7	56	153	534	54,5
7,5	60	176	610	62,2
8	64	200	691	70,5
8,5	68	226	777	79,2
9	72	253	868	88,5
9,5	76	282	964	98,3
10	80	313	1065	109



Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



OCEAN WINCHLINE

PRODUCT DESCRIPTION

Ocean winchline was created to be used perfectly in winches. Its high strength and low elongation makes the rope attractive for the users of self tensioning winches or single drum winches. Ocean winchline has a very stable round section, which allows even winding, for smooth running and minimal abrasion between spires. Ocean winchline is based on a 12 strand plaited core and covered with a very tight jacket which makes a balanced rope (twist free). We are able to produce in diameters from 24mm until 90mm in any required length.

Ocean winchline is a floating rope and due to its composition characteristics, it does not absorb water.

APPLICATIONS

**Mooring
Winch Lines
Inland shipping
River vessels
Offshore
Cruise vessels
Yachting
Towing Lines
Ferries
Cargo vessels
Tankers**

MAIN CHARACTERISTICS

Construction:	12 Strand + Jacket
Melting Point:	140°C
Specific gravity:	+/- 0,93
Abrasion resistance:	very good
Chemical resistance:	good
Ultraviolet resistance:	very good
Floating:	yes
Water absorption:	0%
Snap-back:	low
Flexibility:	low
Production and Construction:	Based on ISO 10572
Testing method:	ISO 2307

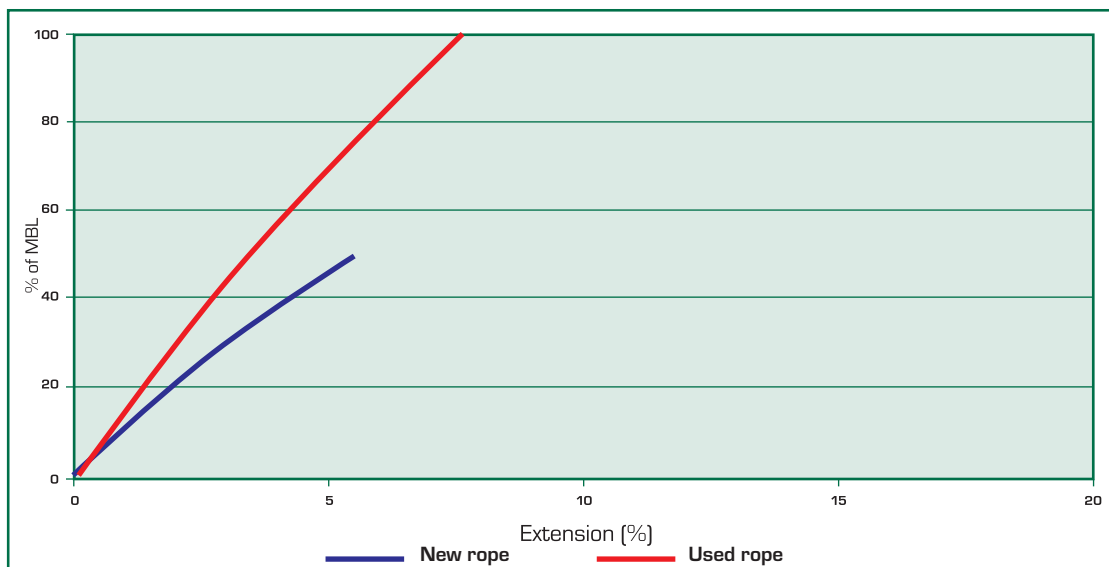


OCEAN WINCHLINE

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3	24	33,9	135	13,8
3,5	28	38,2	158	16,1
4	32	46,9	204	20,8
4,5	36	73,4	269	27,4
5	40	86,1	336	34,3
5,25	42	90,3	358	36,5
5,5	44	97,9	403	41,1
5,75	46	118	448	45,7
6	48	127	493	50,3
6,25	50	135	538	54,9
6,75	54	150	627	63,9
7	56	165	694	70,8
7,25	58	169	717	73,1
7,5	60	178	761	77,6
7,75	62	186	806	82,2
8	64	200	873	89
8,5	68	213	940	95,9
8,75	70	246	1030	105
9	72	254	1070	109
9,25	74	277	1140	116
10	80	315	1340	137
10,25	82	330	1410	144
10,5	84	362	1500	153
11	88	391	1660	169
11,25	90	408	1740	177

Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



ASTRA® LINE

PRODUCT DESCRIPTION

Astra® Line yarns are composed with a polyver core and a high grade polyester cover. This composite yarn has been proven to give excellent performance in resisting abrasion, on both the inside and the outside of Astra® Line. Its low friction leads to a decreased heat development inside the rope, giving a higher safety factor and a longer rope lifetime.

Astra® Line is available in 3 and 4 strand construction as well as in 8 strand plaited construction.

Apart from general mooring and towing applications, Astra® Line is also used very successfully in offshore applications such as SPM's (single point mooring systems).

Also various navy's use Astra® Line on board their vessels.

APPLICATIONS

Winch lines
Mooring lines
Towing lines



Courtesy Smit International

MAIN CHARACTERISTICS

Material:	composite yarns (polyester-polyver)
Construction:	3, 4 strand and 8 strand plaited
Specific Gravity:	1.14
Melting point:	260 °C / 165 °C
Breaking strength:	equal dry and wet
Approx. elongation (broken-in)	
at 20 % M.B.L	3,8 %
at 50 % M.B.L	7,7 %
at break	14,8 %
Production and Construction:	Based on ISO 10556
Testing method:	Based on OCIMF guidelines

MAIN CHARACTERISTICS

- **Excellent U.V. resistance**
- **Very low snap-back**
- **Do not absorb water**
- **Excellent resistance to abrasion**
- **Excellent resistance to fatigue**
- **High friction resistance**

ASTRA® LINE

3 Strand Astra® Line ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,75	6	2	7,2	0,73
1	8	3,8	13,5	1,38
1,25	10	5,5	20	2,04
1,5	12	8	28,8	2,94
1,75	14	10,9	39,4	4,02
2	16	14,1	51	5,2
2,25	18	17,8	64,7	6,6
2,5	20	22,1	79,4	8,1
2,75	22	26,8	96,1	9,8
3	24	31,9	116	11,8
3,25	26	37,6	133	13,6
3,5	28	43,4	152	15,5
3,75	30	49,9	172	17,5
4	32	56,5	192	19,6
4,5	36	71,4	239	24,4
5	40	88,4	288	29,4
5,5	44	108	344	35,1
6	48	127	404	41,2
6,5	52	150	470	47,9
7	56	172	538	54,9
7,5	60	197	610	62,2
8	64	224	699	71,3

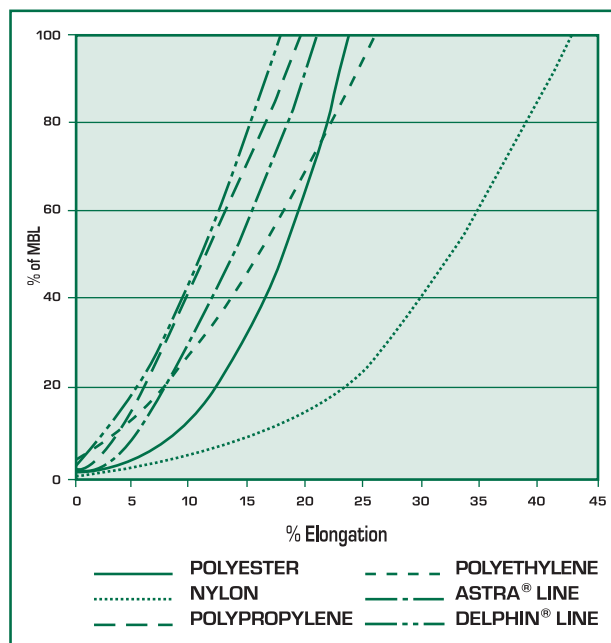
Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

ASTRA G55 8 Strand ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3,5	28	43	181	18,5
3,75	30	49,5	207	21,1
4	32	56,5	234	23,9
4,5	36	71,5	294	30
5	40	88	360	36,7
5,5	44	107	432	44,1
6	48	127	512	52,2
6,5	52	149	596	60,8
7	56	173	688	70,2
7,5	60	198	786	80,1
8	64	225	890	90,8
9	72	285	1118	114
10	80	352	1363	139
11	88	426	1648	168
12	96	507	1942	198
13	104	595	2265	231
14	112	690	2618	267
15	120	792	2981	304
16	128	901	3383	345
17	136	1017	3795	387
18	144	1141	4246	433
19	152	1271	4707	480
20	160	1408	5198	530
21	168	1552	5707	582

Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



ORION® LINE PREMIUM

PRODUCT DESCRIPTION

A new generation of Orion® Line has now been developed in a composition of polyester with high tenacity polypropylene fibres. Due to intensive research and development we have achieved an improved breaking strength of 15% over the previous Orion® Line. This combination of fibres has proven in the practical field to be highly suitable in situations where the strength of the rope must be superior to standard polypropylene. Abrasion-resistance is substantially increased, which improves safety and the life-time of this rope. Orion® Line Premium has a specific gravity of 0,98, therefore it floats.

Orion® Line Premium is produced in 8 and 12 strands plaited, which are kink free constructions. Orion® Line Premium can also be available in 3 and 4 strands on request. The UV-stabilizer protects the rope against deterioration by UV-radiation, thus contributing to the economic lifetime of the Orion® Line Premium.

MAIN CHARACTERISTICS

Construction:	8/12 Strand plaited and 3/4 strand twisted
Rope colour:	pink
Rope identification:	double green marker
Specific gravity:	+/- 0,98
Melting point:	260° / 140°
Breaking strength:	equal dry and wet
Approx. elongation:	
New rope	
at 20%MBL	7.0%
at 50%MBL	12.8%
at break	---
Used rope	
at 20%MBL	2.7%
at 50%MBL	7.3%
at break	15.7%
Production and Construction:	Based on ISO 10556
Testing method:	ISO 2307

APPLICATIONS

Mooring lines

Towing lines

Fishfarming

Fishing

Messenger Lines

Pick-up lines



ORION® LINE PREMIUM

3 Strand

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,75	6	2	8	0,82
1	8	3,1	11,9	1,21
1,25	10	4,7	17,9	1,83
1,5	12	7,4	27,7	2,82
1,75	14	10	38,2	3,9
2	16	12	44,2	4,51
2,25	18	16,1	58,8	6
2,5	20	18,7	67,6	6,89
2,75	22	24,1	85,7	8,74
3	24	28,1	99,3	10,1
3,25	26	32,1	112	11,4
3,5	28	38,8	134	13,7
3,75	30	44,2	151	15,4
4	32	49,5	168	17,1
4,25	34	56,2	189	19,3
4,5	36	61,6	206	21
5	40	78	257	26,2
5,5	44	94,2	307	31,3
6	48	112	360	36,7
6,5	52	131	416	42,4
7	56	152	480	48,9
7,5	60	174	543	55,4
8	64	198	620	63,2

Others sizes available upon request
MBL values are on unspliced condition according to ISO 2307

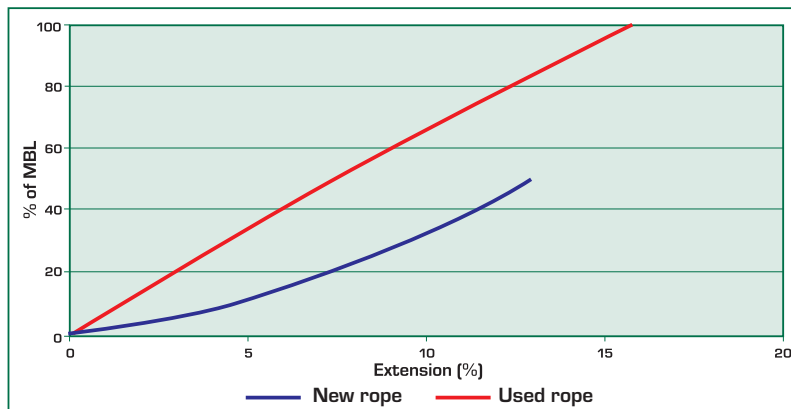
8 Strand and 12 Strand

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3,5	28	42	164	16,7
3,75	30	49	190	19,4
4	32	53	207	21,1
4,5	36	67	259	26,4
5	40	85	324	33
5,5	44	99	377	38,4
6	48	120	456	46,5
6,5	52	141	534	54,5
7	56	162	613	62,5
7,5	60	188	701	71,5
8	64	216	799	81,5
8,5	68	245	900	91,8
9	72	275	1000	102
9,5	76	305	1098	112
10	80	339	1205	123
11	88	411	1470	150
12	96	490	1735	177
13	104	573	2019	206
14	112	669	2323	237
15	120	764	2650	270
16	128	870	3030	309
17	136	982	3380	345
18	144	1100	3770	384

Others sizes available upon request
MBL values are on unspliced condition according to ISO 2307



LOAD EXTENSION AT BREAK



LIBRA[®] LINE

PRODUCT DESCRIPTION

Libra[®] Line is a double braided rope construction, composed of two equal elements, a braided sheath over a braided core. Our new state of the art production-equipment is fully computer-controlled, which guarantees a second to none quality and thus safety in mooring-systems.

Our newly built 1.200 square metres rigging-shop has been specially designed and is a centre of excellence, where all our rope terminations and assembly-fabrication takes place, including fitting of floats and Polyurethane coating of ropes, using our automatic coating machine, which guarantees a smooth and abrasion-resistant rope-protection. Libra[®] Line has also excellent characteristics for successful application in fishing operations, a lot used in purse seining.

MAIN CHARACTERISTICS

Material:	Polypropylene multifilament
Specific gravity:	0.91
Melting Point:	165 °C
Breaking strength:	equal dry and wet
Chemical resistance:	high resistance against oil and acids
Snap-back:	low
Ultraviolet resistance:	good
Material:	Polyester
Specific gravity:	1.38
Melting Point:	260 °C
Abrasion resistance:	very high
Elongation:	limited
Snap-back:	low
Ultraviolet resistance:	excellent
Material:	Nylon
Specific gravity:	1.14
Melting Point:	250 °C
Breaking strength:	higher than polyester
Flexibility:	very flexible dry and wet
Ultraviolet resistance:	excellent
Production and Construction:	Polyester and Nylon based on ISO 10554
Testing method:	Based ISO 10554

APPLICATIONS

- Winch lines
- Mooring lines
- Fishing lines
- Fish cage lines
- Buoy mooring
- Towing springs
- Deep sea cable as recovery ropes



Courtesy Smit International



Libra[®] Line Nylon

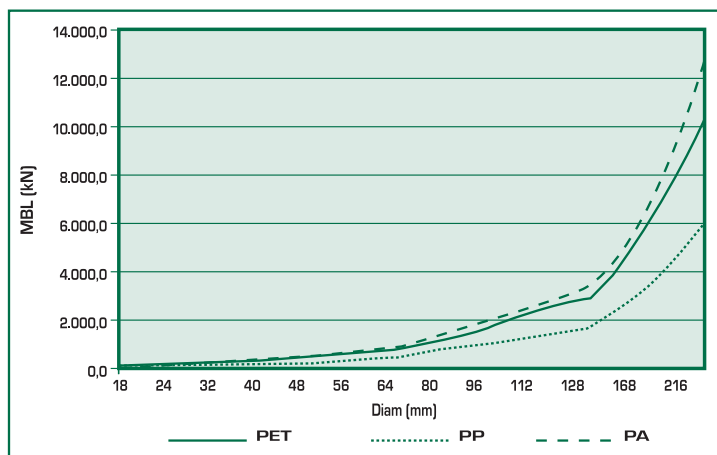
LIBRA[®] LINE

Polypropylene	Polyester	Nylon
PP	PET	PA

Size Nr.	Diameter mm	Weight kg/ 100m	MBF kN	MBF Tonf	Weight kg/ 100m	MBF kN	MBF Tonf	Weight kg/ 100m	MBF kN	MBF Tonf
2	16							15,9	53,9	5,5
2,25	18	17,1	38,2	3,9	24,7	62,8	6,4	21,4	68,6	7
2,625	21	22,8	51,0	5,2	34,5	85,3	8,7	28,5	93,2	9,5
3	24	28,5	66,7	6,8	44	112	11,4	35,7	125	12,7
3,5	28	38,8	91,6	9,34	59,7	149	15,2	48,6	177	18
4	32	50,7	120	12,2	77,9	194	19,8	63,5	216	22
4,5	36	64,2	151	15,4	98,8	257	26,2	80,4	265	27
5	40	78,9	186	19	122	318	32,4	98,8	353	36
5,5	44	95,8	226	23	147	371	37,8	120	412	42
6	48	114	269	27,4	176	441	45	143	490	50
6,5	52	134	316	32,2	205	525	53,5	168	588	60
7	56	156	343	35	238	609	62,1	195	677	69
7,5	60	178	422	43	274	698	71,2	223	765	78
8	64	203	481	49	312	794	81	254	883	90
9	72	256	608	62	395	961	98	321	1069	109
10	80	317	647	66	487	1216	124	397	1353	138
11	88	384	981	100	591	1471	150	481	1638	167
12	96	457	1079	110	702	1716	175	572	1912	195
13	104	536	1226	125	825	2050	209	671	2275	232
14	112	622	1373	140	956	2354	240	779	2618	267
15	120	713	1569	160	1100	2697	275	893	2991	305
16	128	814	1736	177	1250	2932	299	1020	3334	340
18	144	1020	2206	225	1580	3707	378	1280	4119	420
21	168	1390	2942	300	2150	5031	513	1740	5590	570
24	192	1820	3834	391	2810	6570	670	2280	7453	760
27	216	2300	4854	495	3560	8316	848	2880	9611	980
30	240	2840	6002	612	4390	10268	1047	3560	12739	1299

Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

MINIMUM BREAKING LOAD



NYLON

PRODUCT DESCRIPTION

Oliveira Sá produces a superior quality multifilament Nylon rope. This material gives unique characteristics, creating Nylon a better rope when compared with other fibres. It has a very good resistance against abrasion, very good breaking strength and also a good recovery from stretch.

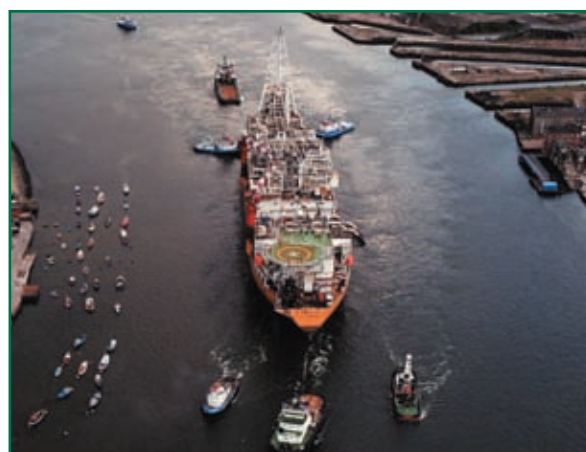
Oliveira Sá nylon ropes are available in several construction: 3, 4 strand twisted, 8 strand plaited ropes and also in a variety of braided ropes.

APPLICATIONS

Towing
Ship's mooring
Lifting
Cargo handling
Tanker mooring
General purposes

MAIN CHARACTERISTICS

Melting point:	250 °C
Specific gravity:	1,14
Chemical resistance:	good resistance to alkalis at normal temperatures but limited resistance to acids
Elongation at break:	approximately 43%
Ultraviolet resistance:	excellent
Energy absorption:	high
Recovery from stretch:	excellent
Splice conditions:	easy to splice when dry (almost impossible when wet)
Flexibility:	excellent handling characteristics, however when constantly subjected to wet conditions there is a tendency to stiffen due to fibre shrinkage
Snap-back:	high
Production and Construction:	According to ISO 1140
Testing method:	ISO 2307



NYLON

3 Strand NYLON Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,5	4	0,99	3,7	0,38
0,75	6	2,22	7,9	0,81
1	8	3,95	14	1,43
1,25	10	6,17	21,2	2,16
1,5	12	8,88	30,1	3,07
1,75	14	12,1	40	4,08
2	16	15,8	51,9	5,29
2,25	18	20	64,3	6,56
2,5	20	24,7	79,2	8,08
2,75	22	29,9	94	9,59
3	24	35,5	112	11,4
3,25	26	41,7	129	13,2
3,5	28	48,4	149	15,2
3,75	30	55,5	169	17,2
4	32	63,2	192	19,6
4,5	36	80	240	24,5
5	40	98,7	294	30
5,5	44	119	351	35,8
6	48	142	412	42
6,5	52	167	479	48,8
7	56	193	550	56,1
7,5	60	222	560	57,1
8	64	253	710	72,4

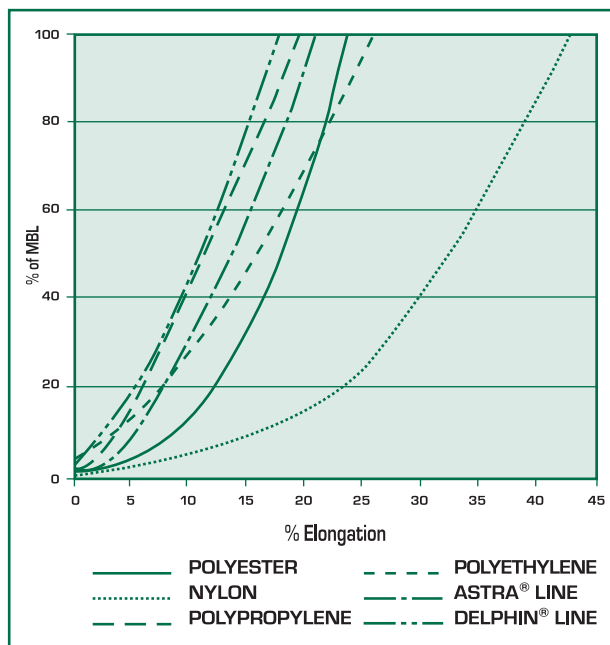
8 Strand NYLON Ropes *

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3,5	28	49	150	15,3
4	32	64	200	20,4
4,5	36	81	250	25,5
5	40	100	300	30,6
5,5	44	121	355	36,2
6	48	144	425	43,3
6,5	52	170	500	51
7	56	197	560	57,1
7,5	60	226	630	64,2
8	64	257	710	72,4
9	72	325	900	91,8
10	80	401	1118	114
11	88	486	1324	135
12	96	578	1598	163
13	104	678	1804	184
14	112	787	2118	216
15	120	903	2363	241
16	128	1010	2648	270
17	136	1160	3001	306
18	144	1300	3354	342

Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



POLYESTER

PRODUCT DESCRIPTION

Oliveira Sá Polyester ropes are used all over the world for towing springs, buoy moorings, capstan hauling, ROV & submersible lift ropes, supply boat mooring and tanker mooring. Using high tenacity multifilament polyester yarns in our ropes, ensures outstanding wet and dry strength and durability against abrasion and fatigue. Polyester ropes do not absorb water, so they neither harden or lose strength when wet. This ropes are very easy to splice, have an excellent ultraviolet resistance due to a special treatment of the polyester yarns. This ropes remains flexible and do not become brittle at temperatures of minus 40°C.

Oliveira Sá Polyester ropes are available in three constructions (3, 4 and 8 strand ropes)

APPLICATIONS

Towing springs

Buoy mooring

Capstan hauling rope

ROV & submersible lift ropes

Supply boat mooring

Tanker mooring

MAIN CHARACTERISTICS

Melting point:	260 °C
Specific gravity:	± 1,38
Chemical resistance:	generally good except in the presence of alkalis
Elongation at break:	approximately 23%
Ultraviolet resistance:	excellent
Resistance to abrasion:	excellent
Resistance to fatigue:	excellent
Strength:	outstanding when wet or dry
Water absorption:	do not absorb water
Splice condition:	easy
Production and Construction:	According to ISO 1141
Testing method:	ISO 2307



POLYESTER

3 Strands POLYESTER Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,5	4	1,21	2,8	0,29
0,75	6	2,73	6,1	0,62
1	8	4,85	10,5	1,07
1,25	10	7,58	16,2	1,65
1,5	12	10,9	23	2,35
1,75	14	14,9	30,9	3,15
2	16	19,4	39,8	4,06
2,25	18	24,6	49,9	5,09
2,5	20	30,3	61	6,22
2,75	22	36,7	73,1	7,45
3	24	43,7	86,1	8,78
3,25	26	51,2	101	10,3
3,5	28	59,4	116	11,8
3,75	30	68,2	132	13,5
4	32	77,6	150	15,3
4,5	36	98,2	188	19,2
5	40	121	230	23,5
5,5	44	147	276	28,1
6	48	175	326	33,2
6,5	52	205	380	38,7
7	56	238	437	44,6
7,5	60	273	500	51
8	64	311	560	57,1

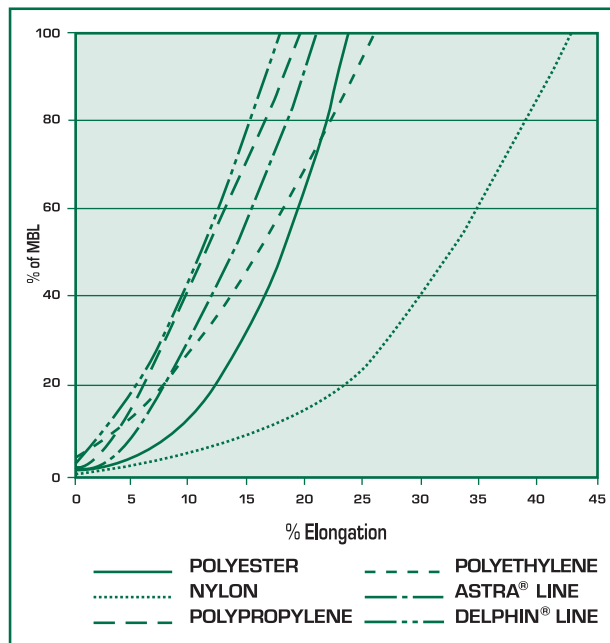
Others sizes available upon request.
MBL values are on unspliced condition according to ISO 2307

8 Strands POLYESTER Ropes*

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3,5	28	59,5	118	12
4	32	77,7	150	15,3
4,5	36	98,4	190	19,4
5	40	121	236	24,1
5,5	44	147	280	28,6
6	48	175	335	34,2
6,5	52	205	400	40,8
7	56	238	450	45,9
7,5	60	273	500	51
8	64	311	560	57,1
9	72	393	710	72,4
10	80	486	900	91,8
11	88	588	1059	108
12	96	699	1255	128
13	104	821	1500	153
14	112	952	1697	173
15	120	1090	1902	194
16	128	1240	2236	228
17	136	1400	2501	255
18	144	1570	2805	286

Others sizes available upon request
MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



DELPHIN® LINE

PRODUCT DESCRIPTION

The high strength Delphin® Line monofilaments are produced according to the latest state of art in extrusion technology. This guarantees a superior and safe performance in practice. The ropes are available in 3 - 4 strand constructions. These are used mainly on fishing vessels and inland shipping. Also Delphin® Line 8 strand plaited ropes are increasingly sold as mooring ropes on sea going vessels.

Delphin® Line ropes are floating and do not absorb water, which makes handling very easy. The special nature of the filaments contribute highly to an increased abrasion resistance, thus improving the lifetime and the security.

MAIN CHARACTERISTICS

Specific gravity:	± 0,91
Chemical resistance:	good resistance to acids
Elongation at break:	approximately 16%
Floats:	yes
Resistance to abrasion:	excellent
Flexibility:	remains flexible when wet
Resistance conditions:	same resistance when wet or dry
Water absorption:	do not absorb water
Shrinkage:	do not shrink
Splice conditions:	easy
Snap-back:	low
Lifetime:	much longer lifetime than comparable qualities
Production and Construction:	Based on ISO 10572
Testing method:	ISO 2307

APPLICATIONS

Mooring lines

Fishing lines

Towing lines

Aquaculture

Winch lines

Messenger lines

Pick-up lines



Courtesy Stichting Bureau Voorlichting Binnenvaart

DELPHIN® LINE

3 Strands DELPHIN® LINE Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,75	6	1,7	6,8	0,69
1	8	3	11,9	1,21
1,25	10	4,5	17,8	1,81
1,5	12	6,6	25,9	2,64
1,75	14	9,1	35,4	3,61
2	16	11,6	44,8	4,57
2,25	18	14,9	57,2	5,83
2,5	20	17,9	68,3	6,96
2,75	22	22	83,3	8,49
3	24	26	98,1	10
3,25	26	30,5	114	11,6
3,5	28	35,5	131	13,4
3,75	30	40,7	150	15,3
4	32	46	168	17,1
4,25	34	51,9	188	19,2
4,5	36	58,5	211	21,5
5	40	72	255	26
5,5	44	88	307	31,3
6	48	104	358	36,5
6,5	52	122	413	42,1
7	56	142	474	48,3
7,5	60	163	535	54,6
8	64	186	598	61

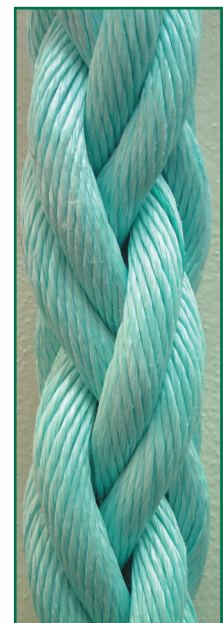
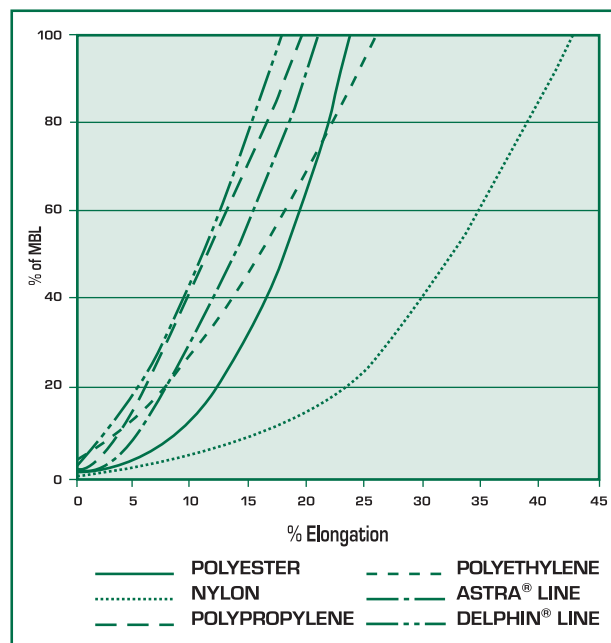
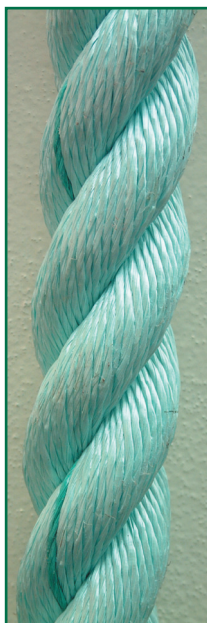
Others sizes available upon request
MBL values are on unspliced condition according to ISO 2307

8 Strands DELPHIN® LINE Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
3,5	28	35,5	143	14,6
3,75	30	40,5	166	16,9
4	32	46	180	18,4
4,5	36	58,5	228	23,2
5	40	72	277	28,2
5,5	44	88	328	33,4
6	48	104	383	39,1
6,5	52	122	445	45,4
7	56	142	509	51,9
7,5	60	163	583	59,5
8	64	185	660	67,3
9	72	234	826	84,2
10	80	290	1010	103
11	88	351	1216	124
12	96	417	1432	146
13	104	490	1638	167
14	112	570	1902	194
15	120	650	2177	222
16	128	740	2461	251
17	136	840	2765	282
18	144	940	3079	314

Others sizes available upon request
MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



TAURUS®

PRODUCT DESCRIPTION

Oliveira Sá produces a superior quality polypropylene rope, that can be supplied in several types such as, monofilament, split film and also multifilament.

These ropes are very competitive to be used in fishing, general marine applications, mooring, life saving equipment and others. The ropes can be produced in many different constructions: 3, 4 strand twisted and also in different braided constructions.

MAIN CHARACTERISTICS

Melting point:	165 °C
Specific gravity:	± 0,91
Chemical resistance:	resistance to alkalis, oils and acids
Elongation at break:	approximately 20%
Ultraviolet resistance:	good
Floats:	yes
Water absorption:	low
Flexibility:	remains flexible when wet
Splice conditions:	easy
Snap-back:	low
Production and Construction:	Based on ISO 1346
Testing method:	ISO 2307

APPLICATIONS

- Mooring**
- Towing**
- Fishing**
- Life saving equipment**
- Lithorage**
- Cargo lashing & nets**
- Safety nets**
- General purposes**



TAURUS®

3 Strand POLYPROPYLENE Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,5	4	0,723	2,7	0,28
0,75	6	1,63	5,9	0,6
1	8	2,89	10,1	1,03
1,25	10	4,52	15,4	1,57
1,5	12	6,51	21,6	2,2
1,75	14	8,86	28,9	2,95
2	16	11,6	37	3,77
2,25	18	14,6	46,2	4,71
2,5	20	18,1	56,1	5,72
2,75	22	21,9	67,1	6,84
3	24	26	78,8	8,04
3,25	26	30,6	91,5	9,33
3,5	28	35,4	105	10,7
3,75	30	40,7	119	12,1
4	32	46,3	134	13,7
4,5	36	58,6	167	17
5	40	72,3	204	20,8
5,5	44	87,5	243	24,8
6	48	104	286	29,2
6,5	52	122	332	33,9
7	56	142	381	38,9
7,5	60	163	432	44,1
8	64	185	487	49,7

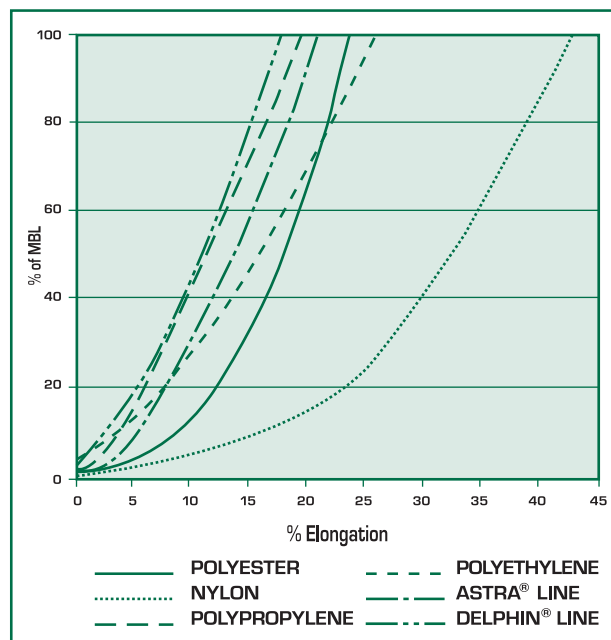
Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

8 Strand POLYPROPYLENE Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf	
1,25	10	3,11	7,8	0,8	8x2 strand
1,5	12	4,1	10,8	1,1	
1,75	14	5	14,7	1,5	
2	16	6,6	19,6	2	
2,25	18	9,5	27,5	2,8	
2,5	20	11,5	33,3	3,4	
2,75	22	13,2	38,2	3,9	
3,5	28	35,4	105	10,7	4x2 strand
4	32	46,3	134	13,7	
4,5	36	58,6	167	17	
5	40	72,3	204	20,8	
5,5	44	87,5	243	24,8	
6	48	104	286	29,2	
6,5	52	122	332	33,9	
7	56	142	381	38,9	
7,5	60	163	433	44,2	
8	64	185	488	49,8	
9	72	234	608	62	
10	80	289	740	75,5	
11	88	350	888	90,5	
12	96	417	1040	106	
13	104	489	1206	123	
14	112	567	1393	142	
15	120	651	1579	161	
16	128	741	1785	182	
17	136	836	2001	204	
18	144	937	2216	226	

Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK



POLYETHYLENE

PRODUCT DESCRIPTION

Oliveira Sá produces a monofilament rope, with very good abrasion resistance, useful in situations where very high breaking strain is not required.

Oliveira Sá Polyethylene ropes are used in fishing, towing and general purposes because they don't absorb water, do not shrink, always have the same resistance wet or dry, good resistance to abrasion and floats on water.

Oliveira Sá Polyethylene ropes are available in two constructions: 3 or 4 strand ropes.

APPLICATIONS

Fishing

Towing

General purposes



MAIN CHARACTERISTICS

Melting point:	135 °C
Specific gravity:	± 0,96
Chemical resistance:	good resistance to acids
Elongation at break:	approximately 26%
Floats:	yes
Resistance to abrasion:	good
Flexibility:	remains flexible when wet
Resistance conditions:	same resistance when wet or dry
Water absorption:	do not absorb water
Shrinkage:	do not shrink
Production and Construction:	Based on ISO 1969
Testing method:	ISO 2307



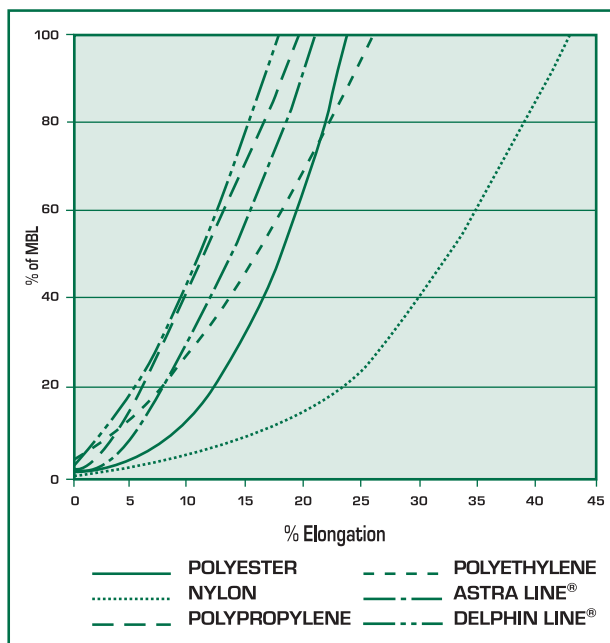
POLYETHYLENE

3 Strand POLYETHYLENE Ropes

Size Nr.	Diameter mm	Weight kg/100m	MBF kN	MBF Tonf
0,5	4	0,802	1,9	0,19
0,75	6	1,8	4,1	0,42
1	8	3,21	7,2	0,73
1,25	10	5,01	10,9	1,11
1,5	12	7,21	15,5	1,58
1,75	14	9,82	20,9	2,13
2	16	12,8	27	2,75
2,25	18	16,2	33,8	3,45
2,5	20	20	41,3	4,21
2,75	22	24,2	40	4,08
3	24	28,9	49,8	5,08
3,25	26	33,9	68,4	6,97
3,5	28	39,3	79,2	8,08
3,75	30	45,1	90,3	9,21
4	32	51,3	102	10,4
4,5	36	64,9	128	13,1
5	40	80,2	157	16
5,5	44	97	188	19,2
6	48	115	222	22,6
6,5	52	135	259	26,4
7	56	157	299	30,5
7,5	60	180	340	34,7
8	64	205	386	39,4

Others sizes available upon request
 MBL values are on unspliced condition according to ISO 2307

LOAD EXTENSION AT BREAK





All technical characteristics in this brochure are strictly indicative. They can not engage the responsibility of Cordoaria Oliveira Sá. We reserve the right to change them without prior notice.



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