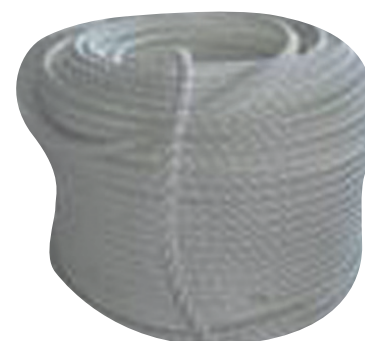


MORDEC™ Synthetic Ropes

Types Of Synthetic Rope

These products are manufactured in several international standards according to the destinations where the goods will be consumed. The major standards to carry our productions are US Standards & ISO Standard. Therefore, please indicate on your order sheets the industrial standard you would like, or describe the specifications you would need.

No.	Items	Specifications	Use
1	Polypropylene Monofilament Rope or Polyethylene Monofilament Rope	a) 3,4-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 100mm. Assorted colours. b) 8-strand plaited, 200 or 220 meter coil, Dia 20mm to 120mm. Assorted colors.	For Vessels, Fisheries, Sea-culture, Sporting, Packing, etc. Mooring Line, Tow-line, other industrial uses.
2	Polypropylene Danline Type Rope	a) 3,4-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 100mm. Assorted colours. b) 8-strand plaited, 200 or 220 meter coil, Dia 20mm to 120mm. Assorted colors.	For Vessels, Fisheries, Whale-line, Mooring Line, etc. Mooring Line, Tow-line, other industrial uses.
3	Mega Rope	a) 3,4-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 100mm. Extra strength. b) 8-strand plaited, 200 or 220 meter coil, Dia 20mm to 120mm. Extra strength.	For Vessels, Fisheries, Whale-line, Mooring Line, etc. Mooring Line, Tow-line, other industrial uses.
4	Nylon Multifilament Rope or Polyester Multifilament Rope	a) 3-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 100mm. White colour only. b) 8-strand plaited, 200 or 220 meter coil, Dia 20mm to 120mm. White colour only.	For Vessels, Fisheries, Mooring Line, Tow-line, other industrial uses.
5	Vinylon (Kuralon) Rope	3,4-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 100mm. White colour only.	Fisheries, Boat Rope, Tow-line, Sporting, etc.
6	Manila, Sisal Rope	3-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 96mm. Manila or Sisal colour.	Fisheries, Boat Rope, etc.
7	Vinylon & Polyethylene Mixed Rope	Mixture of Vinylon & Polyethylene, 3-strand, Z-twist, 200 or 220 meter coil, Dia 4mm to 100mm.	Fisheries, Cargo Rope, Truck Rope, Sporting, etc.



MORDEC™

SYNTHETIC ROPES

No.	Items	Specifications	Use
8	Wire & Fiber Compound Rope	Wire core & Fiber jacket in each strand, 3, 4, 6-strand, Z-twist, 200 meter coil, Dia 14mm to 54mm.	Trawl Rope, Tow-line, Mooring Line, other industrial uses.
9	Wire & Fiber Combination Rope	Wire core & Fiber jacket in each strand, 3-strand twisted, 100 or 200 meter oil, Dia 48mm to 58mm.	For Fisheries.
10	Lead Core Rope	Leaded in one or each starnd of Rope, 3, 4-strand, Z-twist, 200 or 220 meter oil, Dia 8mm to 100mm.	For Fisheries and Sinker Rope.
11	Braided Rope	Made of PE, PP, Nylon or Polyester, 8 ply 16 ply 24 ply Diamond Braided or 12 ply Solid Braided, Dia 4mm to 12mm.	Yacht Line, Boat Rope, etc.
12	Polyethylene Twisted Twine	3-strand, Z-twist, 100 meter / Hank, Dia 1.5mm to 5mm. Assorted colours.	For Fisheries or many uses.
13	Baler Twine (Film Twine)	Twisted, 3Kgs-5Kgs per coreless tube. Size: 7,000 denier to 40,000 denier.	For Binding, Packaging or Agricultural uses, etc.
14	Nylon Twine	3 ply twisted, 1 lb or 1/2 lb/6 inch Bobbin. Size: 210d/15 ply to 300 ply, White or Coloured.	For Fisheries or many uses.
15	Synthetic Fiber Yarns	Polyethylene, Polypropylene or Nylon, Monofilament or Multifilament, 3Kgs - 5Kgs per paper tube.	For Rope making or other many uses.
16	DIY Utility Cords	Polypropylene or Nylon, Various sizes and lengths, hanks or coils.	For many uses.
17	Polyethylene Knotless Net	400d/24ply-15ply, stretched mesh size 30mm to 160mm, heat stabilized.	Fisheries, Indoor Golf Fence, Tennis Court Fence, etc.
18	Dyneema Rope (HMPE)	Made of Dyneema® Fibres (SK 75), one of the strongest fibres in the world. 12 Strand rope.	Towing, Mooring, Fisherles, 4 x 4 WD offshore application, etc.

SYNTHETIC ROPES

Also available standard length per coil: 600ft, 720ft, 1,200ft.

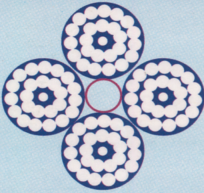
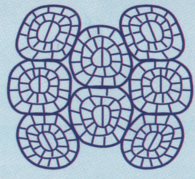


MORDEC™ SYNTHETIC ROPES

Various Ropes in Different Materials

ITEM NO.	ITEMS	SPECIFICATION
1	Polypropylene rope	This rope has good strengths against the loads and abrasions, and is economical in its price hence widely used for consumers and industries. The main features are floatable, rot-free, light and easy to handle. We extrude the excellent fiber and make the ropes in 3-strand, 4-strand and 8-strand.
2	Polyethylene rope	This rope is very similar to Polypropylene rope in its appearance and strengths. But, the main differences are slippery surface and high resistance in ultra-violet rays. Therefore, this rope is used much in hot weathers like Africa and Middle-East countries.
3	Nylon Multifilament rope	Nylon is strongest among the general synthetic fibers except Kevlar or Spectra. The main features are high strength and long life in all weathers, high elasticity and shock adsorption, sink in the water. This is an expensive rope, hence can be used where the strengths are important.
4	Polyester Multifilament rope	This rope has very similar appearance to Nylon Rope. But, the main differences are 21% heavier weight and 40% shorter stretch than Nylon. This rope also has the excellent strengths against loads and abrasions hence used much for boats, yacht and vessels.
5	Vinyon (Kuralon) rope	Appearance of Vinyon Spun Fiber looks like cotton. Also, the feelings are soft and good like cotton. But, this is a synthetic fiber, hence rot-free and much stronger than natural cotton and sinks in the water.

Construction of Rope

ITEM NO.	3- STRAND	4- STRAND	8- STRAND
Sectional Drawing			
Full Coils			

Polypropylene Synthetic Ropes Technical Specifications

ITEM	MECHANICAL PROPERTIES	POLYPROPYLENE
1	Tenacity (resistance to breaking)	7 - 10 g/den (6.16 cN/Dtex)
2	Elongation (before breakage)	18 - 22%
3	Coefficient of friction (reluctant to slip against Steel)	0.15 - 0.22
4	Melting Point	330° F (165 °C)
5	Critical Temperature (Degradation occurs)	250° F (121 °C)
6	Specific Gravity	0.91
7	Cold Flow (Creep) Molecular slippage due to constant static loading	Negligible to High

MORDEC™ SYNTHETIC ROPES

Comparison Table of Each Synthetic Fiber Rope

General Characteristics of Synthetic Fiber Ropes

Item	Base	Specific Gravity	Suction Rate	Elasticity at Breaking Point	Features
Polyethylene Rope (Monofilament)	Polyethy	0.95	11%	32%	• Possible to float • Do not perish • Strong about 1.5 times of Manila • Light weight about 70% of Manila Rope
Polypropylene Rope (Monofilament)	Olefin	0.91	14%	37%	• Lightest among all fiber ropes • Decay by long & strong sunlight • U.V Stabilization available to reduce the decay • About 25% more strength than Polyethylene Mono rope
Polypropylene Rope (Multifilament)	Olefin	0.91	17%	38%	• Very soft and pleasant to touch, easy to handle • Other points same as Mono
Polypropylene Rope (Danline Type)	Olefin	0.91	11%	28%	• 10% more strength than Mono • Less stretchable than Mono • Other points same as Mono
Nylon Rope (Multifilament)	Polyamid	1.14	15%	50%	• Strongest among all synthetic fiber ropes, 1.5 times of Polypropylene • Do not perish • Very soft and pleasant to touch • About 30% heavier than Polypropylene • High elasticity & shock absorption
Polyester Rope (Multifilament)	Polyester	1.38	12%	31%	• Very strong but about 24% less than nylon • Less stretchable than nylon • No strength decline in wet • 21% heavier than nylon • Do not perish • Very soft and pleasant to touch
Vinylon Rope	Polyvinyl Alcohol	1.30	36%	37%	• Appearance and soft to touch like cotton • About half strength of nylon rope • Easy to handle

SYNTHETIC ROPES



MORDEC™ SYNTHETIC ROPES

MSM-S8 Mixed Rope (8-Strand, Polypropylene & Polyester)

Features:

- Light, stronger than nylon and easy to handle
- Excellent resistance to chemical and water absorption
- Low elongation, retain flexibility for lasting usage
- Better UV & abrasion resistance due to Polyester cover
- Quality, Strength and Fatigue tested
- Meets international & British Standards

General Applications:

- Marine, Commercial Fishing, Mooring, Dock & Anchor line
- Hoisting, Towing, Rigging, Safety and All Purpose lines
- Industrial and Farm usage

Technical Specification:

Materials	: Accordance with OCIMF guide line (40% Polyester & 60% PP Mono Mixed)
Construction	: Braided
Color	: White with 3 black tracer
Relative Density	: 1.05
Tolerance	: + / -5%
Length	: 220M
Certification	: G.L, LRS

Meets Requirements of EN 699, EN ISO 1346:2004, EN ISO 1969:2005, IS 14928-1

Specification (8 Strand) - 220M						
Product Code	Nominal Diameter		Circ	Weight		Minimum Breaking Strength
200M	mm	Inch	Inch	Kg/100m	lbs/100ft	Kg
MSM-S8-024220	24	15/16	3	31.90	21.44	12000
MSM-S8-028220	28	1 1/8	3 1/2	43.40	29.16	15800
MSM-S8-032220	32	1 1/4	4	56.50	37.97	20000
MSM-S8-036220	36	1 1/2	4 1/2	71.40	47.98	24900
MSM-S8-040220	40	1 5/8	5	88.40	59.4	30000
MSM-S8-044220	44	1 3/4	5 1/2	108.00	72.57	35800
MSM-S8-048220	48	1 7/8	6	128.00	86.01	46290
MSM-S8-052220	52	2 1/16	6 1/2	150.00	100.8	54300
MSM-S8-056220	56	2 1/4	7	172.00	115.58	62800
MSM-S8-060220	60	2 3/8	7 1/2	199.00	133.72	72000
MSM-S8-064220	64	2 1/2	8	225.00	151.19	82600
MSM-S8-068220	68	2 5/8	8 1/2	255.00	171.35	92100
MSM-S8-072220	72	2 7/8	9	285.00	191.51	102000
MSM-S8-080220	80	3 5/32	10	352.00	236.53	125500
MSM-S8-088220	88	3 7/16	11	502.00	337.33	156000
MSM-S8-096220	96	3 13/16	12	598.00	401.84	185000
MSM-S8-104220	104	4 1/8	13	701.00	471.05	216000
MSM-S8-112220	112	4 7/16	14	813.00	546.31	250000
MSM-S8-120220	120	4 3/4	15	933.00	626.95	286000
MSM-S8-128220	128	5 1/16	16	1060.00	712.29	325400
MSM-S8-136220	136	5 3/8	17	1200.00	806.37	365000
MSM-S8-144220	144	5 5/8	18	1345.00	903.8	405000
MSM-S8-160220	160	6 5/16	20	1660.00	1115.47	50000



Note:
Minimum Breaking Strength is 6 times the Working Load Limit. Standard usage of rope should not exceed safe working load limits. Breaking strength is determined on new rope in soft lay construction under dry conditions. These values may be lower in wet or extreme conditions.

* Minimum breaking strength is 6 times the working load limit

MSP-S3 Polypropylene Rope (3-Strand)

Features:

- Light weight, easy to handle and floats on water
- Good resistance to chemical and abrasion
- Low water absorption
- Controlled elongation for long lasting usage
- Quality, Strength and Fatigue tested
- Meets international & British Standards

General Applications:

- Marine, Commercial Fishing, Mooring, Dock & Anchor line
- Hoisting, Towing, Rigging, Safety and All Purpose lines
- Industrial and Farm usage

Technical Specification:

Materials	: 100% polypropylene resin, certified supplier only
Construction	: Twisted
Color	: White with red tracer on one strand
Relative Density	: 0.91
Tolerance	: + / -5%
Length	: 200M
Certification	: MILL

Meets Requirements of EN 699, EN ISO 1346:2004, EN ISO 1969:2005, IS 14928-1

Specification (3 Strand) - 200M						
Product Code	Nominal Diameter		Circ	Weight		Minimum Breaking Strength
200M	mm	Inch	Inch	Kg/100m	lbs/100ft	Kg
MSP-S3-006200	6	1/4	3/4	1.70	1.14	680
MSP-S3-008200	8	5/16	1	3.00	2.01	1200
MSP-S3-009200	9	3/8	1 1/8	3.80	2.55	1500
MSP-S3-010200	10	7/16	1 1/4	4.55	3.05	1800
MSP-S3-012200	12	1/2	1 1/2	6.59	4.42	2700
MSP-S3-014200	14	9/16	1 3/4	9.00	6.04	3600
MSP-S3-016200	16	5/8	2	11.59	7.78	4500
MSP-S3-018200	18	3/4	2 1/4	14.80	9.93	5800
MSP-S3-020200	20	13/16	2 1/2	18.00	13.08	6900
MSP-S3-024200	24	15/16	3	26.00	17.45	9900
MSP-S3-026200	26	1	3 1/4	30.50	20.49	11500
MSP-S3-028200	28	1 1/8	3 1/2	35.50	23.83	13200
MSP-S3-030200	30	1 1/4	3 3/4	41.00	27.55	14900
MSP-S3-032200	32	1 5/16	4	46.00	30.87	16800
MSP-S3-03600	36	1 7/16	4 1/2	58.50	39.26	20600
MSP-S3-040200	40	1 5/8	5	72.00	48.32	25700

* Minimum breaking strength is 6 times the working load limit



SYNTHETIC ROPES

Note:
Minimum Breaking Strength is 6 times the Working Load Limit. Standard usage of rope should not exceed safe working load limits. Breaking strength is determined on new rope in soft lay construction under dry conditions. These values may be lower in wet or extreme conditions.

MORDEC™ SYNTHETIC ROPES

MSP-S8 Polypropylene Rope (8-Strand)

Technical Specification:

Materials : 100% polypropylene resin, certified supplier only
 Construction : Braided
 Color : White with red tracer on one strand
 Relative Density : 0.91
 Tolerance : + / -5%
 Length : Available in 200M and 220M
 Certification : G.L, LRS

Meets Requirements of EN 699, EN ISO 1346:2004, EN ISO 1969:2005, IS 14928-1

Specification (3 Strand) - 200M						
Product Code	Nominal Diameter		Circ	Weight		Minimum Breaking Strength
200M	mm	Inch	Inch	Kg/100m	lbs/100ft	Kg
MSP-S8-024200	24	15/16	3	25.90	17.40	9900
MSP-S8-028200	28	1 1/8	3 1/2	35.45	23.82	13200
MSP-S8-032200	32	1 1/4	4	45.90	30.84	16800
MSP-S8-036200	36	1 1/2	4 1/2	58.64	39.40	26066
MSP-S8-040200	40	1 5/8	5	71.82	48.26	25700
MSP-S8-044200	44	1 3/4	5 1/2	90.00	60.48	31800
MSP-S8-048200	48	1 7/8	6	104.00	69.88	36600
MSP-S8-052200	52	2 1/16	6 1/2	122.00	81.98	42100
MSP-S8-056200	56	2 1/4	7	142.00	95.42	52000
MSP-S8-060200	60	2 3/8	7 1/2	163.20	109.67	59500
MSP-S8-064200	64	2 1/2	8	185.00	124.31	67550
MSP-S8-072200	72	2 7/8	9	234.00	157.24	84500
MSP-S8-080200	80	3 5/32	10	290.00	194.87	104000
MSP-S8-088200	88	3 7/16	11	351.00	235.86	125000
MSP-S8-096200	96	3 13/16	12	417.00	280.21	148000
MSP-S8-104200	104	4 1/8	13	490.00	329.26	173500
MSP-S8-112200	112	4 7/16	14	570.00	383.02	201000
MSP-S8-120200	120	4 3/4	15	650.00	436.78	230000
MSP-S8-128200	128	5 1/16	16	740.00	497.26	258850
MSP-S8-136200	136	5 3/8	17	840.00	564.45	291000
MSP-S8-144200	144	5 5/8	18	940.00	631.65	321500
MSP-S8-160200	160	6 5/16	20	1152.00	774.11	390300

* Minimum breaking strength is 6 times the working load limit





Nylon Rope (8-Strand)

Technical Specification:

- Materials : 100% Nylon Fiber
- Specified Gravity : 1.14
- Melting Point : 220°C
- Elongation at break: 45%
- Water Absorption : 2 - 5%
- Length : 220M
- Color : White
- Certificate : LRS

Product Quote	DIA		CIR	Weight		Breaking Strength
	MM	INCH	INCH	KGS/100M	LBS/100FT	kN
SN81-040220-DY	40	1-9/16	5	99.0	66.5	333.5
SN81-044220-DY	44	1-3/4	5-1/2	12.0	80.6	397.3
SN81-048220-DY	48	1-7/8	6	142.0	95.4	466.0
SN81-052220-DY	52	2-1/16	6-1/2	166.0	111.5	539.0
SN81-056220-DY	56	2-1/4	7	193.0	129.7	613.1
SN81-060220-DY	60	2-3/8	7-1/2	221.0	148.5	691.6
SN81-064220-DY	64	2-1/2	8	252.0	169.3	784.8
SN81-068220-DY	68	2-11/16	8-1/2	285.0	191.5	882.9
SN81-072220-DY	72	2-7/8	9	319.0	214.4	961.0
SN81-080220-DY	80	3-5/32	10	394.0	264.8	1,206.6
SN81-084220-DY	85	3-3/8	10-1/2	445.0	299.0	1,353.7
SN81-088220-DY	88	3-7/16	12	477.0	320.5	1,422.4
SN81-096220-DY	95	3-13/16	12	568.0	381.7	1,667.6
SN81-104220-DY	104	4-1/8	13	666.0	447.5	1,961.9
SN81-112220-DY	112	4-7/16	14	772.0	518.8	2,060.0
SN81-120220-DY	120	4-3/4	15	887.0	596.0	2,501.5



SYNTHETIC
ROPES

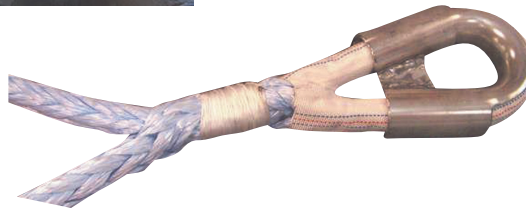
MORDEC™ SYNTHETIC ROPES

Dynamica Dyneema® Rope



Technical Specification:

Materials : Dyneema® Fibres type SK75
Melting Point : 145°C
Elongation at break : 2-3%
Neutral Bouyancy : Density 0.98
Advantages : Strongest Fibre, Light Weight; 1/6 of Wire Rope, Good UV resistance
Color : Blue
Certificate : Major Certificates available for indent



Braided Dynamica Rope — SK75

Product Code	Diameter mm	Breaking loads in tonnes	Runnage m/kg	Max. length app. metres	Max. length app. Ft.	Weight / 100 m kgs app.	Weight pr. 328 ft. Lbs app.
SD12-75-005-DN	05 mm	3.3	72.5	2200	7217.8	1.4	3.1
SD12-75-006-DN	06 mm	4.0	50.0	2200	7217.8	2.1	4.6
SD12-75-006-DN	07 mm	6.1	36.5	2200	7217.8	2.7	6.0
SD12-75-007-DN	08 mm	8.1	28.5	2200	7217.8	3.5	7.7
SD12-75-008-DN	09 mm	9.0	24.0	2200	7217.8	4.2	9.2
SD12-75-009-DN	10 mm	10.9	20.4	2200	7217.8	4.6	10.1
SD12-75-010-DN	11 mm	13.9	16.2	2200	7217.8	6.2	13.6
SD12-75-011-DN	12 mm	17.8	11.6	2200	7217.8	9.0	19.8
SD12-75-012-DN	14 mm	21.7	9.6	2000	6561.7	12.0	26.4
SD12-75-014-DN	16 mm	26.1	6.9	1800	6905.5	14.0	30.8
SD12-75-016-DN	18 mm	35.8	5.2	1180	3870.0	19.0	41.8
SD12-75-018-DN	20 mm	40.8	4.6	1000	3280.0	22.0	48.4
SD12-75-020-DN	22 mm	50.5	3.8	900	2952.0	26.0	57.2
SD12-75-022-DN	24 mm	60.0	2.9	680	2231.0	34.0	74.8
SD12-75-024-DN	26 mm	65.0	2.8	620	2034.1	36.0	79.2
SD12-75-026-DN	28 mm	71.0	2.4	510	1672.0	40.0	88.0
SD12-75-028-DN	30 mm	77.8	2.3	500	1640.4	43.0	94.6
SD12-75-030-DN	32 mm	87.2	2.1	450	1476.0	48.0	105.6
SD12-75-032-DN	34 mm	92.2	2.0	410	1345.0	49.0	107.8
SD12-75-034-DN	36 mm	106.7	1.6	350	1148.3	60.0	132.0
SD12-75-036-DN	38 mm	132.8	1.4	300	984.3	68.0	149.6
SD12-75-038-DN	40 mm	145.0	1.3	275	902.0	73.0	160.6
SD12-75-040-DN	42 mm	155.0	1.2	249	816.0	83.0	182.6
SD12-75-044-DN	44 mm	170.0	1.0	210	688.0	100.0	220.0
SD12-75-048-DN	48 mm	180.0	0.8	175	574.0	125.0	275.0
SD12-75-052-DN	52 mm	195.0	0.7	150	492.0	143.0	314.6
SD12-75-058-DN	58 mm	210.0	0.6	125	410.0	160.0	352.0