

Product Catalogue

The Leader in Rope Production in Eastern Europe

QUALITY. INNOVATIONS. EXPERIENCE

The Leader in Rope Production in Eastern Europe









About Our Company

Who we are

The company Magistr SIA was founded in 1991 as a family enterprise by Tatjana and Jurijs Dovoreckis.

Production of technical textile is the main activity of the company. Magistr SIA constantly develops its production gaining new experience, selecting highly qualified team, creating reliable partnership.

Experience, innovation and quality stand for Magistr.

Today Magistr SIA has two rope factories equipped with modern technology to produce yearly up to 3 000 t of goods used in various fields of the world economics such as fishery, navigation, construction and sports.

We supply high quality goods to our customers. The quality management system of Magistr SIA has been assessed and found to be in accordance with the requirements of ISO 9001:2008 in respect of development, manufacture, wholesale and delivery of synthetic yarns, ropes and twines of different diameters that is approved also by Germanischer Lloyd, Russian Maritime Register of Shipping, TÜV SÜD and IQnet.

The company created an engineering group dealing with innovations and scientific research. It works on new rope production technologies and equipment developing that allows Magistr SIA to offer new types of goods to the market to satisfy the requirements of customers.

We enjoy our job and we are always glad to share our positive feelings with our partners.

Magistr SIA Chairperson of the Board **Tatjana Dovorecka**

What we do









What we produce

Magistr SIA takes a leading position in the production of ropes in Eastern Europe. Twisted, braided and double braided ropes made of synthetic yarns for general and special applications are our standart products. We produce a wide range of braided cords rich in costructions to satisfy multiple needs. Quality is the key value of our company.



Manufactur

Manufacture

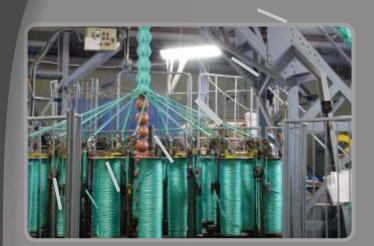




Double braided and 8-strand squareline ropes production.



3-strand twisted ropes production



Production of floated ropes

The Tall Ship Races

The year 2013 is remarkable by the fact that the Tall Ship Races regatta is back to Riga after 10 years. Due to this event the capital of Latvia attracted over 100 sailboats and yachts from 17 countries all over the world. Most of sailboats and yachts came from the UK, Poland, Russia, Germany, Norway and the Netherlands. The Tall Ship Races is one of the most spectacular regattas in the world, and by the number of visitors, it is the second largest and comparable only to the Olympic Games. This regatta was visited by about 1.5 million viewers. Taking into account a great interest of the citizens to the international sailing regatta the Tall Ships Races 2013, which was held in Riga from 25 to 28 July, Riga municipality intends to apply for the adoption of the race again, but this could happen in eight years only.

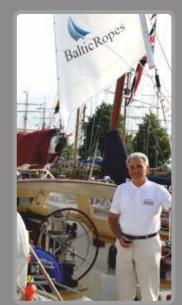
to apply for the adoption of the race again, but this could happen in eight years only.

The president of Latvia Andris Berzinš attended the regatta. He gave a warm welcome to the participants and quests of the international regatta and visited the Latvian yacht "Spaniel" equipped with high-tech yachting ropes under Latvian trade mark BalticRopes.

It is known that Latvian yacht "Spaniel" took part in the international regatta. The main captain and the owner of "Spaniel" is Gunārs Šteinerts, with whom MAGISTR SIA has developed a good friendship. 2013 is the third year the yacht "Spaniel" is equipped with BalticRopes manufactured by MAGISTR SIA. Our ropes are constantly being used and tested

under real race and weather conditions on this yacht.

The yacht "Spaniel" is a cruising yacht of 17 meters long, built in 1979 and it was even registered in the Guinness Book of Records. The yacht "Spaniel" is taking an active part in the regatta the Tall Ship Races since 1998, and it is the only boat that took 17 prizes in the C-class, including 7 first places. Due to its achievements the yacht "Spaniel" is very popular in Latvia as well as all over the world.









BalticRopes

BalticRopes offers a wide range of high quality yachting ropes. We believe that every yachtsman can find exactly what he needs: from dinghy to racing, and from classic to super yacht. Our customers deserve the best. That's why we do not only offer the highest quality yachting ropes around – we also offer faster delivery, clear communications and the best possible support from our dedicated and experienced client services team.











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Nylon 3-strand Twisted Ropes in Coils



One of the distinctive features of Nylon ropes is their high tenacity as well as the resistance to drop loads and to wear. The Nylon ropes find their standard application in the navigation, the fishery, the construction. The ropes are made of UV-stabilized high tenacity Nylon in accordance with LVS EN ISO 1140:2012 (E).

- From Properties:
 specific weight 1,14 g/cm3 (sink in water)
 melting temperature 215°C
 lower resistance to acids
 absorb humidity
 standard colour white (any other colour is available)

g/m 9,8 22,2 39,5 61,7 88,8 121 158 200 247 g/m 299 355 417 484 555 632 800 987 MBL*, kN 117,5 140,0 161,2 186,2 211,2 240,0 300,0 367,5

 st minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Polyester 3-strand Twisted Ropes



resistance to climate conditions (excellent UV-resistance), to abrasion, and by their high tenacity. In contrast to the Nylon ropes, Polyester ropes are soft and flexible when wet. These ropes successfully find their application in the water sports, the navigation and the fishery. The ropes are made of high tenacity Polyester in accordance with LVS EN ISO 1141:2012 (E).

- specific weight 1,38 g/cm3 (sink in water)
 melting temperature 260°C
 absorb humidity
 resistance to chemically active habitat
 standard colour white (any other colour is available)

				10	12	14	16	18	20
g/m	12,1	27,3	48,5	75,8	109	149	194	246	303
MBL*, kN	3,5	7,6	13,1	20,2	28,7	38,6	49,7	62,3	76,2
Ø mm	22	24	26	28	30	32	36	40	
g/m	367	437	512	594	682	776	982	1210	
MBL*, kN	91,3	107,6	126,2	145,0	165,0	187,5	235,0	287,5	

 st minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Polypropylene 3-strand Twisted Ropes in Coils



application in the navigation (mooring, towing), the fishery, the construction and the agriculture. An attractive price of Polypropylene ropes is combined with various application options. Polypropylene ropes are of average abrasion resistance and resistant to the chemically active habitat. The ropes are made of Polypropylene in accordance with LVS EN ISO 1346:2012 (E).

- Main Properties:
 specific weight 0,91 g/cm3 (do not sink in water)
 melting temperature 170°C
 do not absorb water
 excellent insulation properties
 colour on request of the customer (wide colour range)

Polypropylene 3-strand Ropes on Flanged Bobbins

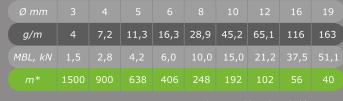


The ropes made of twisted Polypropylene find their general application in the navigation (mooring, towing), the fishery, the construction and the agriculture. An attractive price of Polypropylene ropes is combined with various application options. Polypropylene ropes are of average abrasion resistance and resistant to the chemically active habitat.. The ropes are made of Polypropylene in accordance with LVS EN ISO 1346:2012 (E)

g/m 7,2 16,3 28,9 45,2 65,1 88,6 116 146 181

	22	24	26	28	30	32	36	40	
g/m	219	260	306	354	407	463	586	723	
MDI* LN	67.0	90.0	00.0	106	110	122	170	200	

 * minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations



- specific weight 0,91 g/cm3 (do not sink in water) melting temperature 170°C do not absorb water

- excellent insulation properties colour on customer's request (wide colour range)

Polypropylene Multifilament 3-strand Twisted Ropes in Coils



Polypropylene multifilament 3-strand twisted ropes find their general applications in the navigation (mooring, towing), the fishery, the construction and the agriculture. These ropes are of good resistance to the chemical habitat and of average resistance to abrasion. A reasonable price combined with various applications makes these ropes attractive for customers. The ropes are produced of UV-stabilized PP in accordance with LVS EN ISO 1346:2012 (E).

Main Properties:

- specific weight 0,91 g/cm3 (do not sink in water) melting temperature 170°C

- menting temperature do not absorb water excellent insulation properties standard colour white (any other colour is available on

g/m 7,2 16,3 28,9 45,2 65,1 88.6 116 146 181 g/m 219 260 306 354 407 463 586 723

Silver 3-strand Twisted Ropes in Coils

Silver ropes are made of high tenacity Polyester and Polysteel in combination 1:1. This combination provides for a high tenacity and a good UV resistance Polyester yarn in the rope structure makes it resistant to the abrasion and to high temperatures. Silver ropes find their application in the fishery and the navigation The ropes are made according to the requirements of the standard LVS EN ISO 10556:2010 (E).

- Main Properties:
 specific weight 1,15 g/cm3 (sink in water)
 melting temperature 260°C /150°C
 absorb humidity
 resistance to chemically active habitat - standard Polyester colour – white, for Polysteel – any colour (colour choice is approved by the customer)

g/m 19,9 35,4 55,3 79,6 108 142 179 221 268

g/m 319 374 434 498 566 717

* minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Polysteel 3-strand Twisted Ropes in Coils



75% of Polypropylene, 25% of high density Polyethylene. It is mainly used in the navigation (mooring, towing) and the fishery. Polysteel is a high tenacity product and is resistant to abrasion. The ropes are made of UV-stabilized high tenacity Polysteel in accordance with LVS EN ISO 10572:2010 (E).

- main Properties:
 specific weight 0,93 g/cm3 (do not sink in water)
 melting temperature 150°C
 do not absorb water
 resistance to chemically active habitat
 colour on request of the customer (wide colour range)

g/m 16,3 29,0 45,3 65,2 88,8 116 147 181 219 g/m 261 306 355 408 464 587 725 877

 $\ ^*$ minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Right Choice

If you need high quality ropes, fishing twines or special products of technical textile, you have made a right choice! We offer for your attention a full range of our products, a description of the technical potential of our production, and a possibility to make an inquiry and to place an on-line trial order – to do so, you just need to fill out an offered form, and our commercial managers will inform you about the prices, the conditions, the lead time and the shipment options in short

We are open for cooperation!

Nylon 8-strand Squareline Ropes



One of the distinctive features of Nylon ropes is their high tenacity as well as the resistance to drop loads and to wear.

The Nylon ropes find their standard application in the navigation, the fishery, the construction. The ropes are made of UV-stabilized high tenacity Nylon in accordance with LVS EN ISO 1140:2012 (E)

If required, loops with protection of different length can be made on both or one end of the rope.

- Main properties:
 specific weight 1,14 g/cm3 (sink in water)
 melting temperature 215°C
 absorb humidity
 lower resistance to acids

- standard colour white (other colours are available on ustomer's request)

	12	14	16	18	20	22	24	26	28
g/m	90,0	121	160	200	250	305	360	417	490
MBL**, kN	37,6	50,0	64,9	80,4	99,0	117,5	140,0	1 61,2	186,2
	30	32		40	44	48	52	56	60
g/m	560	640	810	1000	1210	1440	1700	1970	2260
MBL**, kN	211,2	240,0	300,0	367,5	438,7	515,0	598,7	687,5	783,7
	64	72*	80*						

** minimum values shall be reduced by 10% in the case of a rope with eye spliced termin ations

Polyester 8-strand Squareline Ropes



Polyester ropes are mainly characterized by their good resistance to climate conditions (excellent UV-resistance), to abrasion, and by their high tenacity. In contrast to the Nylon ropes, Polyester ropes are soft and flexible when wet. These ropes successfully find their application in the water sports, the navigation and the fishery. The ropes are made of high tenacity Polyester in accordance with the standard LVS EN ISO 1141:2012 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- specific weight 1,38 g/cm3 (sink in water) melting temperature 260°C absorb humidity

- resistance to chemically active habitat resistance to chemically active habitat standard colour white (any other colour is available)

g/m 2570 3250 4010

	12	14	16	18	20	22	24	26	28
g/m	109	149	194	246	304	367	437	512	595
MBL**, kN	28,7	38,6	49,7	62,3	76,2	91,3	107,6	126,2	145,0
	30	32		40	44	48	52	56	60
g/m	683	777	984	1210	1470	1750	2050	2380	2730
MBL**, kN	165,0	187,5	235,0	287,5	345,0	407,5	475,0	546,2	625,0
Ø mm	64	72*	80*				l coil leng	jth is 11	0 m
Ø mm	64 3110	72* 3930	80* 4860				l coil leng mum val y 10% in	ues shal	l be

Polypropylene 8-strand Squareline Ropes



The 8-strand braided mooring ropes of split film Polypropylene find their general application in the navigation (mooring, towing), the fishery. An attractive price of Polypropylene ropes is combined with various application options. Polypropylene ropes are of average abrasion resistance and resistant to the chemically active habitat. The ropes are made according to the requirements of the standard LVS EN ISO 1346:2012 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

Main properties:

- specific weight 0,91 g/cm3 (do not sink in water) melting temperature 170°C do not absorb water

- excellent insulation properties colour on customer's request (wide colour range)

g/m 65,1 88,6 116 146 181 219 260 306 354

g/m 407 463 586 723 875 1040 1220 1420 1630

Polypropylene Multifilament 8-strand Squareline Ropes



Polypropylene multifilament 8-strand braided ropes find their general applications in the navigation (mooring, towing) and in the fishery. These ropes are of good resistance to the chemical habitat and of average resistance to abrasion. A reasonable price combined with various applications makes these ropes attractive for customers. The ropes are produced in accordance with LVS EN ISO 1346:2012 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- Main properties:
 specific weight 0,91 g/cm3 (do not sink in water)
 melting temperature 170°C
 do not absorb water
 excellent insulation properties
 standard colour white (any other colour is available)

g/m 65,1 88,6 116 146 181 219 260 306 354 g/m 407 463 586 723 875 1040 1220 1420 1630

g/m 1850 2340 2890

g/m 1850 2340 2890

** minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Polysteel 8-strand Squareline ropes

Polysteel is a high tenacity material on the polyolefins base 75% of Polypropylene, 25% of high density Polyethylene. It is mainly used in the navigation (mooring, towing) and the fishery. Polysteel is a high tenacity product and is resistant to abrasion. The ropes are made of high tenacity Polysteel in accordance with LVS EN ISO 10572:2010 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- specific weight 0,93 g/cm3 (do not sink in water)
 melting temperature 150°C
 do not absorb water
 resistance to chemically active habitat
 colour on request of the customer (wide colour range)

	12	14	16	18	20	22	24	26	2
g/m	65,2	88,8	116	147	181	219	261	306	3
MBL**, kN	26,9	36,4	47,2	59,3	72,8	87,4	104	121	
	30	32	36	40	44	48	52	56	E
g/m	408	464	587	725	877	1040	1220	1420	16
MBL**, kN	158	179	224	274	327	385	448	514	
	64	72*	80*			maxima	l coil len	gth is 1	
g/m	1860	2350	2900					llues sha n the ca	
MBL**, kN	657	820	995		a rope w	vith eye	spliced		

Silver 8-strand Squareline Ropes



Silver ropes are made of high tenacity Polyester and Polysteel in combination 1:1. This combination provides for a high tenacity and a good UV resistance Polyester yarn in the rope structure makes it resistant to the abrasion and to high temperatures. Silver ropes find their application in the fishery and the navigation. The ropes are made according to the requirements of the standard LVS EN ISO 10556:2010 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

Main properties:

- specific weight 1,15 g/cm3 (sink in water)
 melting temperature 260°C /150°C
 absorb humidity
 resistance to chemically active habitat
 standard Polyester colour white, for Polysteel any colour (colour choice is approved by the customer)

	12	14	16	18	20	22	24	26	28
g/m	79,6	108	142	179	221	268	319	374	434
MBL**, kN	28,6	38,5	49,8	62,3	76,3	91,2	107	125	144
Ø mm	30	32	36	40	44	48	52	56	60
g/m	498	566	717	885	1070	1270	1500	1730	1990
MBL**, kN	164	186	233	285	342	404	471	543	620
ø mm	64	72*	80*				al coil le	ength is	110 m
g/m	2270	2870	3540			educed	nimum v by 10%	in the o	case of
MBL**, kN	701	877	1070		a rope	with ey	e splice	d termir	iations

Nylon 12-strand Braided Ropes

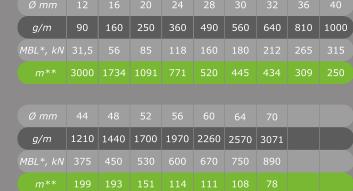


12-strand braided ropes are similar to the 8-strand rope mentioned above. However the "crowns" of the strands are less prominent and therefore less susceptible to surface damage. One of the distinctive features of Nylon ropes is their high tenacity as well as the resistance to drop loads and to wear. The Nylon ropes find their standard application in the navigation, the fishery, the construction. The ropes are made of UV-stabilized high tenacity Nylon in accordance with LVS EN ISO 1140:2012 (E).

If required, loops of different length with protection can be made on both or one end of the rope.

- Main properties:
 specific weight 1,14 g/cm3 (sink in water)
 melting temperature 215°C
 absorb humidity
 lower resistance to acids

- standard colour white (any other colour is available on customer's request)



 $\ ^*$ minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

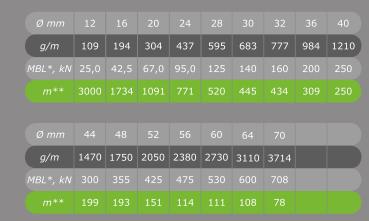
Polyester 12-strand Braided Ropes



12-strand braided construction makes the rope rounder, more stable, more compact and more regular on the surface. Polyester ropes are mainly characterized by their good resistance to climate conditions (excellent UV-resistance), to abrasion, and by their high tenacity. In contrast to the Nylon ropes, Polyester ropes are soft and flexible when wet. These ropes successfully find their application in the water sports, the navigation and the fishery. The ropes are made of high tenacity Polyester in accordance with LVS EN ISO 1141:2012 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- Main Properties:
 specific weight 1,38 g/cm3 (sink in water)
 melting temperature 260°C
 resistance to chemically active habitat
 absorb humidity



Polypropylene 12-strand Braided Ropes



their general application in the navigation (mooring, towing), the fishery. An attractive price of Polypropylene ropes is combined with various application options. Polypropylene ropes are of average abrasion resistance and resistant to the chemically active habitat. The ropes are made of UV-stabilized

If required, loops with protection of different length can be made on both or one end of the rope.

- Main properties:
 specific weight 0,91 g/cm3 (do not sink in water)
 melting temperature 170°C
 do not absorb water
 excellent insulation properties - colour on customer's request (wide colour range)

	12	16	20	24	28	30	32		40
g/m	65,1	116	181	260	354	407	463	586	723
MBL*, kN	22,4	35,5	56	80	106	118	140	170	210
	3000	1734	1091	771	520	445	434	309	250
Ø mm	44	48	52	56	60	64	70		
g/m	875	1040	1220	1420	1630	1850	2225		
MBL*, kN	250	300	355	400	450	500	595		
	199	193	151	114	111	108	78		

Polypropylene Multifilament 12-strand Braided Ropes



the life time of the rope. Polypropylene multifilament 12-strand braided ropes find their general applications in the navigation (mooring, towing) and in the fishery. These ropes are of good resistance to the chemical habitat and of average resistance to abrasion. A reasonable price combined with various applications makes these ropes attractive for customers. The ropes are produced in accordance with LVS EN ISO 1346:2012 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- Main properties:
 specific weight 0,91 g/cm3 (do not sink in water)
 melting temperature 170°C
 do not absorb water
 excellent insulation properties
 standard colour white (any other colour is available)

g/m 65,1 116 181 260 354 407 463 586 723 g/m 875 1040 1220 1420 1630 1850 2225

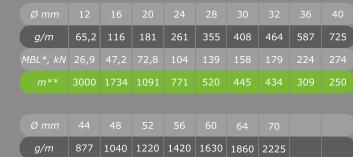
Polysteel 12-strand Braided ropes



12-strand braided ropes are constructed of left and right-hand laid strands to give a torque-free rope. They are easily spliceable and provide a good rope structure for mooring lines. Polysteel is a high tenacity material on the polyolefin base: 75% of Polypropylene, 25% of high density Polyethylene. It is mainly used in the navigation (mooring, towing) and the fishery. Polysteel is a high tenacity product and is resistant to abrasion. The ropes are made of UV-stabilized high tenacity Polysteel in accordance with LVS EN ISO 10572:2010 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- specific weight 0,93 g/cm3 (do not sink in water)
 melting temperature 150°C
 do not absorb water
 resistance to chemically active habitat
 colour on request of the customer (wide colour range)



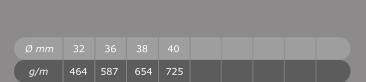
 * minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Polysteel 12-strand Braided ropes, Pre-stretched



Main properties:

- melting temperature 150°C do not absorb water resistance to chemically active habitat colour on request of the customer (wide colour range)



g/m 65,2 88,8 116 147 181 219 261 306 355

12 - 40 m	m
Elongation at break	8,5%
Elongation at 50% load	4,5%

MagForce HMPE 12-strand Braided Ropes



as strong size-for-size as steel wire ropes, though they are lighter, extremely flexible and easier to handle in all respects. HMPE ropes have significantly lower coefficients of friction as well as lower stretch characteristics than traditional fiber ropes. HMPE 12-strand braided ropes ensure an excellent resistance to many chemicals and agents. MagForce ropes are impregnated and stretched to improve abrasion resistance and endurance.

HMPE ropes offer many advantages such as light weight, high strength, floatability, excellent abrasion resistance, and

for wire and many traditional fiber ropes in offshore mooring, towing, and lifting applications. HMPE 12-strand braided ropes find their application in many other fields as the navigation, the fishery, the construction.

			10	12	14	16	18	20	22
g/m	23	38	62	94	130	165	215	255	310
MBL, kN	41,3	65,7	106	162	216	270	353	412	492
	24	26	28	30	32	36	40	44	48
g/m	360	410	468	520	565	670	795	960	1150
MBL, kN	567	644	724	793	866	1000	1176	1420	1690

- Main Properties:
 specific weight 0,98 g/cm3 (do not sink in water)
 melting temperature 147°C
 UV-resistant
 good resistance to chemically active habitat
 standard colour yellow (any other colour is available)

g/m 1680 1950 2240 2550 3220 3980

g/m 358 420 488 560 637 806 995 1200 1430

Nylon Double Braided Ropes



One of the distinctive features of Nylon ropes is their high tenacity as well as the resistance to drop loads and to wear. The construction well as the resistance to drop loads and to wear. The construction provides for a combination of two ropes in one and protects the ropes from overwinding. A core that provides for the rope tenacity and stability is braided first, then the core is overbraided with cover for an extra tenacity and protection. Double braided ropes find their application in the navigation. The ropes are made of UV-stabilized high tenacity Nylon (9 g/den) in accordance with LVS EN ISO 10554:2010 (E).

If required, loops with protection of different length can be made on both or one end of the rope.

- specific weight 1,14 g/см3 (sink in water) melting temperature 215°С lower resistance to acids

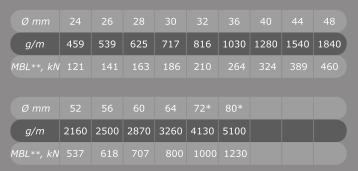
- absorb humidity standard colour white (any other colour is available)

Polyester Double Braided Ropes



Polyester ropes are mainly characterized by their good resistance to climate conditions (excellent UV-resistance), to abrasion, and by their high tenacity. In contrast to the Nylon ropes, Polyester ropes are soft and flexible when wet. The construction provides for a combination of two ropes in one and protects the ropes from overwinding. A core that provides for the rope tenacity and stability is braided first, then the core is overbraided with cover for an extra tenacity and protection. The ropes combine such properties as low elongation and high tenacity, they keep form under load and find their application in the navigation. The ropes are made of high tenacity Polyester in accordance with the standard LVS EN ISO 10547:2010 (E).

If required, loops with protection of different length can be made on both or one end of the rope.



- Main Properties:
 specific weight 1,38 g/cm3 (sink in water)
 melting temperature 260°C
 resistance to chemically active habitat

- absorb humidity standard colour white (any other colour is available)

Mooring Ropes MAGMARINE LINE (HMPE)



Core made of HMPE;

Cover 100 % made of PES

One of distinctive features of MAGMARINE LINE is a high tenacity of rope of rather small dia, that is reached by using a core made of high tenacity material. This product has an extra breaking strength and a minimal elongation. PES cover makes the rope resistant to wear. The construction consists of two braided ropes in one and prevents the rope from twisting. Double braided ropes find their application in navigation.

Loops of 1,8 m with wear protection are made on rope ends.

If required, loops with protection of different length can be made on both or one end of the rope.

g/m 314 372 412 493 579 727 890 1070 1236 g/m 1515 1756 2020 2312 2910 3605

- specific weight 1,10 g/cm3 (sink in water) UV-resistant standard colour white (any other colour is available)

Mooring Ropes MAGMARINE LINE (Kevlar)

Core made of high tenacity Kevlar; cover 100 % made of PES

One of distinctive features of MAGMARINE LINE is a high tenacity of rope of rather small dia, that is reached by using a core made of high tenacity material. This product has an extra breaking strength and a minimal elongation. PES cover makes the rope resistant to wear. The construction consists of two braided ropes in one and prevent the rope from twisting. Double braided ropes find their application in navigation.

Loops of 1,8 m with wear protection are made on rope

If required, loops with protection of different length can be made on both or one end of the rope.

473	555	643						
		643	738	840	1061	1318	1586	1895
312,6	373,4	407,7	470,4	536,1	630,1	719,3	808,5	871,2
52	56	60	64	72	80*			
								12,6 373,4 407,7 470,4 536,1 630,1 719,3 808,5 52 56 60 64 72 80*

 $\ensuremath{^{**}}$ minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

g/m 2225 2575 2956 3357 4254 5253

- Main Properties:
 specific weight 1,42 g/cm3 (sink in water)
 UV- resistant
 standard colour white (any other colour is available)

Mooring Ropes MAGMARINE LINE (Nylon)



Core is made of high tenacity Nylon

One of distinctive features of MAGMARINE LINE is a high tenacity of rope of rather small dia reached by using a special construction of seven braided parallel cores made of high tenacity Nylon. The breaking load of such ropes is 25% more than of ropes of standard construction and Nylon cover overbraiding seven cores makes the rope resistant to wear. This construction prevents the rope from twisting. MAGMARINE LINE ropes find their application in the navigation.

Loops of 1,8 m with wear protection are made on rope ends.

If required, loops with protection of different length can be made on both or one end of the rope.

	48	52	56	60	64	72	80*	
g/m	1430	1680	1950	2240	2550	3220	3980	
1BL**, kN	562,5	659,5	734	909,4	979	1217	1678	

Main Properties:

- specific weight 1,14 g/cm3 (sink in water) UV- resistant

Mooring Ropes MAGMARINE LINE (PES)



Core and cover - 100% PES

One of distinctive features of MAGMARINE LINE is a high tenacity of rope of rather small dia reached by using a special construction of seven braided parallel cores made of high tenacity PES. The breaking load of such ropes is 50% more than of ropes of standard construction and PES cover overbraiding seven cores makes the rope resistant to wear. This construction prevents the rope from twisting. MAGMARINE LINE ropes find their application in navigation.

Loops of 1,8 m with wear protection are made on rope ends.

MagWinchLine



MagWinchline is a double braided combination rope which was MagWinchline is a double braided combination rope which was specially designed to be used in winches. The high strength characteristics and low elongation make this rope attractive for use in single-drum and self-tensioning winches. Well balanced non-kinking construction combines 16-strand core made of polyolefin fibers and tightly braided cover made of mixed fibers with excellent UV-resistance. The presence of Polyester yarns in a cover of the rope significantly increases the resistance to abrasion and high temperatures. MagWinchline retains shape with use and could be widely used on cruise ships, ferries, Ro-Ro vessels, car carriers and tankers.

	48	52	56	60	64	72	80*	
g/m	1840	2160	2500	2870	3260	4130	5100	
MBL**, kN	661,5	786,0	904,5	1088	1178	1528	1948	

** minimum values shall be reduced by 10% in the case of a rope with eye spliced terminations

Main Properties: specific weight – 1,38 g/cm3 (sink in water) UV- resistant

If required, loops with protection of different length can be made on both or one end of the rope.

	28	30	32	34		38	40	44	48
* g/m	409	459	504	648	788	859	924	1050	1365
** g/m	390	437	480	617	750	816	880	1000	1300
MBL, kN	160	180	200	240	270	310	340	400	500
	52	56	60	64					
* g/m	1529	1775	1920	2150					
** g/m	1456	1690	1830	2050					
MBL, kN	590	700	760	880					

Main properties:

- specific gravity in g/cm3 0,97 g/cm3 (does not sink in water) melting point in °C 170°C /150°C does not absorb moisture (water) resistance to acids

- excellent resistance to abrasion excellent UV resistance



Twisted and Cabled Yarns

Nylon Twisted and Cabled Yarns



- weight of standard package: 5,0 7,5 kg paper tube dimensions: 73 x 80 x 312 mm maximal package dia: 250 mm

Construction den / twists per 1m	MBL	%
den 7560 / S 120 x 3 Z 60	1,83	35
den 7560 / S 150 x 3 Z 100	1,83	35
den 8400 / S 200 x 3 Z 100	1,97	36
den 10080 / S 100 x 3 Z 6	2,37	36
den 10080 / S 180 x 3 Z	2,43	36
den 10080 / S 150 x 3 Z 10	2,43	
den 10080 / S 120 x 3 Z	2,43	36
den 10080 / S 120 x 3 Z	2,43	36
den 10080 / S 100 x 3 Z	2,43	36

These products are made of high tenacity UV-stabilized Nylon yarns and used by many producers of cables and ropes. In the table you will find a standard range of twisted yarns and cables.

Polyester Twisted and Cabled Yarns



These products are made of high tenacity Polyester yarns and used in the fishery for nets and fishing gears as well as for ropes production. In the table you will find a standard range of

Construction den / twists per 1m	Product Code	MBL	%
den 4000 / S 320 x 3 Z 150	250/16	0,88	22,0
den 5000 / S 280 x 3 Z 140	250/20	1,18	21,0
den 7000 / S 100 x 3 Z 80	250/28	1,37	21,5

Main Properties:

- paper tube dimensions: 73 x 80 x 312 mm maximal package dia: 250 mm

Polysteel Twisted and Cabled Yarns



Polysteel is a high tenacity material on the Polyolefins base: 75% of Polypropylene, 25% of high density Polyethylene. It is mainly used for ropes, which find their application in the fishery and the navigation. In the table you will find a standard range of products. Linear density deviation +/- 2%.



Construction den / twists per 1m	g/m	MBL	%
den 4000 / S 144 x 3 Z 74	1,52	0,86	17,0
den 12000 / S (Z) 30 or 40	1,37	0,86	20,0
den 24000 / S (Z) 30 or 40	2,70	1,66	24,0
den 42000 / S (Z) 30 or 40	4,87	3,04	28,0
den 54000 / S (Z) 30	6,26	4,13	28,0
den 90000 / S (Z) 20	10,0	6,80	28,0

Main Properties:

- standard package: 6,0 kg on/without paper tube.

- winding type: precision winding.

Nylon Fishing Twines



yarns and mainly used in fishery for nets and fishing gears. In the table you will find the specifications of standard fishing

Main Properties:

- standard package: 1,7 kg.
- paper tube dimensions: 25 x 31 x 220 mm.
- maximal package dia: 125 mm.
- winding type: precision winding.

Construction den / twists per 1m	Product Code	MBL	%
den 840 / S 500 x 3 Z 250	210/4	0,21	26
den 1260 / S 425 x 3 Z 220	210/6	0,32	28
den 1680 / S 400 x 3 Z 210	210/8	0,41	30
den 2100 / S 380 x 3 Z 195	210/10	0,51	33
den 2520 / S 360 x 3 Z 185	210/12	0,60	33
den 2940 / S 350 x 3 Z 180	210/14	0,69	33
den 3360 / S 300 x 3 Z 160	210/16	0,78	34
den 3780 / S 275 x 3 Z 145	210/18	0,89	34
den 4200 / S 250 x 3 Z 130	210/20	0,98	34
den 5040 / S 240 x 3 Z 125	210/24	1,22	34
den 6720 / S 220 x 3 Z 115	210/32	1,62	35
den 10080 / S 180 x 3 Z 95	210/48	2,36	36
den 12600 / S 170 x 3 Z 85	210/60	2,94	
den 13440 / S 170 x 3 Z 85	210/64	3,04	
den 16800 / S 150 x 3 Z 75	210/80	3,58	36

Polyester Fishing Twines



The twines are made of high tenacity UV-stabilized Polyester yarns and mainly used in fishery for nets and fishing gears. In the table you will find the specifications of standard fishing twines we produce.

Construction den / twists per 1m	Product Code	MBL	%
den 1500 / S 425 x 3 Z 225	250/6	0,29	17,5
den 2000 / S 400 x 3 Z 200	250/8	0,39	18
den 2500 / S 375 x 3 Z 175	250/10	0,47	18
den 3000 / S 360 x 3 Z 170	250/12	0,67	18

Main Properties:

Sewing Threads



for various technical purposes (webbing slings, furniture, big bags, sails, conveyer belts, tents, etc.) Sewing threads are stretched and impregnated, that made them strong, compact and resistant to abrasion.

PES sewing threads

Construction den / twists per 1m	MBL	%
dtex 550 / S 460 x 3 Z 240	0,12	17
dtex 1100 / S 400 x 3 Z 250	0,23	16
dtex 1670 / S 425 x 3 Z 225	0,33	22

PA-6 sewing threads

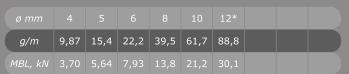
Construction den / twists per 1m	MBL	%
dtex 940 / S 500 x 3 Z 250	0,20	22
dtex 1440 / S 425 x 3 Z 220	0,33	30

Nylon 8-strand Braided Cord with/without Core



use. Nylon 8-strand braided cords find their applications in the

Range available 2 - 12 mm.



Goods are supplied in standard packages:

- in coils (standard length 100 m, 200 m, 220 m) on paper tubes (cords of dia 2-5 mm) on plastic flanged bobbins

- in cartons

Main Properties:

- specific weight 1,14 g/cm3 (sink in water) melting temperature 215°C absorb humidity

- lower re<u>sistance to acids</u>

Polyester 8-strand Braided Cord with/without Core



Range available 3 - 10 mm.

On customer's request the cords can be made of different length, various materials and structure.

g/m 19,0 27,3 48,5 61,4 75,8

Goods are supplied in standard packages:

- in coils (standard length 100 m, 200 m, 220 m)
- on plastic flanged bobbins

Main Properties:

- specific weight 1,38 g/cm3 (sink in water)
- melting temperature 260°C
- resistance to chemically active habitat

Rely on Magistr Ropes

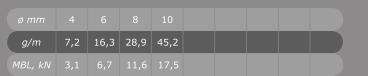
PP Multifilament 8-strand Braided Cord with/without Core



Polypropylene multifilament cords find their general application in the navigation, in the fishery as an auxiliary cord for water sports and leisure products. These cords are of high tenacity, resistant to wear and to chemically active habitat,

Due to the technical properties and attractive price this

Range available 2 - 10 mm.



Goods are supplied in standard packages:

- on plastic flanged bobbins in cartons

Main Properties:

Polysteel 8-strand Braided Cords with PES Core

The weight can be changed on customer's request.

On customer's request the cords can be made without core of different length, various materials and structure.

						10		
g/m	4,1	7,5	11,0	14,2	26,6	48,5		
MBL, kN		2,9	4,0	4,9	7,8	9,8		

- Goods are supplied in standard packages:
 in coils (standard length is 100m, 200m, 220m)
 on plastic flanged bobbins

- specific weight 1 g/cm3 (do not sink in water) melting temperature 150°C
- do not absorb water
- resistance to chemically active habitat
- any colour is available on customer's request

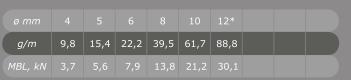
Nylon 16-strand Braided Cord with/without Core



One of the distinctive features of Nylon cords is their high tenacity as well as the resistance to drop loads and to wear. The Nylon cords find their standard application in the navigation, the fishery, the construction.

Range available 2 - 12 mm.

The weight can be changed on customer's request.



Goods are supplied in standard packages:

- in coils (standard length is 100m, 200m, 220m) on paper tubes (cords of dia 2-5 mm) on plastic flanged bobbins in cartons

Main Properties:

- specific weight 1,14 g/cm3 (sink in water)
 melting temperature 215°C
 absorb humidity
 lower resistance to acids
 standard colour white (any other colour is available)

Nylon 16-strand Braided Cord without Core



These Nylon cords find their standard application in the fishery for fishing nets production.

Main Properties:

- specific weight 1,14 g/cm3 (sink in water)
- melting temperature 215°C
- absorb humidity

m/kg 600 380 280 200 150 130 110 90 75 *m/kg* 65 37 30

- Goods are supplied in standard packages:
 in coils (standard length is 100 m, 200 m, 220 m)
 on paper tubes (cords of dia 2-5 mm)
 on plastic flanged bobbins
 in cartons

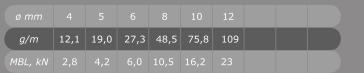
Polyester 16-strand Braided Cord with/without Core



Polyester cords are characterized by their high tenacity, low

Range available 2 - 12 mm.

The weight can be changed on customer's request.



Goods are supplied in standard packages:

- in coils (standard length is 100 m, 200 m, 220 m) on paper tubes (cords of dia 2-5 mm)
- on plastic flanged bobbins

- specific weight 1,38 g/cm3 (sink in water) melting temperature 260°C resistance to chemically active habitat standard colour white (any other colour is available)

PP Multifilament 16-strand Braided Cord with/without Core

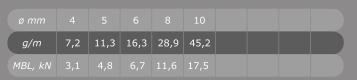


in the navigation, in the fishery as an auxiliary cord for water sports and leisure products. These cords are of high tenacity, resistant to wear and to chemically active habitat.

Due to the technical properties and attractive price this product can easily substitute for more expensive Polyester and Nylon cords.

Range available 2 - 10 mm.

The weight can be changed on customer's request.



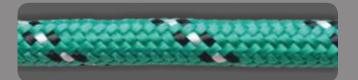
Goods are supplied in standard packages:

- in coils (standard length is 100 m, 200 m, 220 m)
- on paper tubes (cords of dia 2-5 mm) - on plastic flanged bobbins

Main Properties:

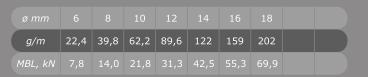
- excellent insulation propertiescolour on customer's request (wide colour range)

Nylon 24-strand Braided Cord with Core



navigation, the fishery, the construction.

In the table you will find a standard range of products.



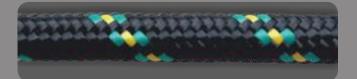
Goods are supplied in standard packages:

- on plastic flanged bobbins

Main Properties:

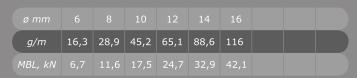
- specific weight 1,14 g/cm3 (sink in water)
- melting temperature 215°C

PP Multifilament 24-strand Cord with Core



application in the navigation, in the fishery as an auxiliary cord for water sports and leisure products. These cords are of high tenacity, resistant to wear and to chemically active habitat, UV-stabilized.

Due to the technical properties and attractive price this product can easily substitute for more expensive Polyester and Nylon cords. In the table you will find a standard range of



Goods are supplied in standard packages:

Main Properties:

- specific weight 0,91 g/cm3 (do not sink in water)
- melting temperature 170°C

- colour on customer's request (wide colour range)

Rely on Magistr Ropes

Polyester 24-strand Braided Cord with Core

Polyester cords are characterized by their high tenacity, low elongation, good UV-resistance and the resistance to wear. These cords find their application in the navigation and the fishery. In the table you will find a standard range of products.

On customer's request the cords can be made of different length, various materials and structure.

			10	12	14	16		
g/m	28,7	51,0	79,7	115	156	204		
MBL, kN	8,3	14,5	23,3	31,7	42,7	55,3		

Goods are supplied in standard packages:

- in coils (standard length is 100 m, 200 m, 220 m) on plastic flanged bobbins

Main Properties:

Polyester 24-strand Braided Cord with Kevlar Core



Range available 6 - 16 mm.

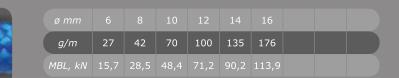
			10	12	14	16		
g/m	24	43	72	94	135	190		
MBL, kN	14,2	25,5	42,1	58,8	80,4	103,9		

- Goods are supplied in standard packages:
 in coils (standard length is 100 m, 200 m, 220 m)
 on plastic flanged bobbins

Main Properties:

- specific weight 1,42 g/cm3 (sink in water)
- resistance to wear
- colour on customer's request (wide colour range)

Polyester 24-strand Braided Cord with HMPE Core



unique combination of properties. The density is slightly less than one, so the fiber floats on water. But the tenacity of the HMPE fibers is the highest in the world and can be stronger than steel. Strong HMPE fibers can be used to make twines, ropes and other special products of high breaking load and minimal weight. All the yachting equipment and other purposes.

Range available 6 - 16 mm.

Goods are supplied in standard packages:

- in coils (standard length is 100m, 200m, 220m) on plastic flanged bobbins in cartons

Main Properties:

- specific weight 1,10 g/cm3 (sink in water) melting temperature 150°C / 160°C
- high tenacity
- resistance to chemically active habitat
- colour on customer's request (wide colour range)

Construction:

- Intermediate cover of Polyester staple fiber 24-strands cover of HT continuous filament Polyester yarns

Polysteel 24-strand Braided Cords with Core



the navigation (mooring, towing), the fishery, the construction and the agriculture. These ropes are of good resistance to the chemical habitat and of average resistance to abrasion. A reasonable price combined with various applications makes these ropes attractive for customers. Cores of this construction are produced in accordance with customer's

Range available 6 - 14 mm.

For Example!

Goods are supplied in standard packages:

- in coils (standard length is 100 m, 200 m, 220 m)
- on plastic flanged bobbins
- in cartons

Main Properties:

- do not absorb water resistance to chemically active habitat colour on customer's request (wide colour range)

The Leader in Rope Production in Eastern Europe Rely on Magistr Ropes

Nylon 32-strand Braided Cords with Core



One of the distinctive features of Nylon cords is their high tenacity as well as the resistance to drop loads and wear due to their elongation. These Nylon cords find their application in the fishery, the construction and the sport industry for fishing/sport/safety nets production. Other application for this product is in the navigation and yachting industry. In the table you fill find a standard range of this product.

Range available 6 - 16 mm.

			10	12	14	16		
g/m	22	40	51	84	115	154		
MBL, kN	8,4	14,7	24,5	31,4	39,3	54,0		

Goods are supplied in standard packages:

- in coils (standard length is 100 m, 200 m, 220 m)
- on plastic flanged bobbins
- in cartons

Main Properties:

Polyester 32-strand Braided Cord with Core



elongation, good UV-resistance and the resistance to wear. One of the most important properties of Polyester cord is its high melting point – 260 °C among the standard materials as PP, Polysteel, Nylon and Silver. These cords find their application in the navigation, the yachting and the fishery. In the table you fill find a standard range of this product.

Range available 6 – 16 mm.

On customer's request the cords can be made of different length, various materials and structure.

			10	12	14	16		
g/m	25	49	70	100	138	170		
MBL, kN	7,8	12,8	20,6	29,4	37,2	44,2		

Goods are supplied in standard packages:

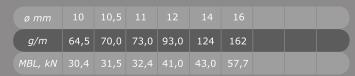
- specific weight 1,38 g/cm3 (sink in water)
- melting temperature 260°C
- resistance to chemically active habitat
- standard colour white (any other colour is available)

Nylon 48-strand Braided Cord with Core



This Nylon cord has a load-bearing parallel core which is covered by tight 48-strand sheath. One of the distinctive features of this Nylon cord is high tenacity as well as resistance to drop loads and wear. The Nylon 48-strand cords find their application in the construction, the navigation, the fishery. In the table you will find a standard range of this product.

Range available 6 - 16 mm.



- Goods are supplied in standard packages:
 in coils (standard length is 100 m, 200 m, 220 m)
 on plastic flanged bobbins
- in cartons

Main Properties:

Right Result

The quality and variety of our marine ropes is the result of innovations and improvements in our manufacturing techniques. We are constantly expanding our range of products and do our best to be in the forefront of ever changing market. In our new rope catalogue you will find exactly what you need: from dinghy to racing yacht, from small boat to big motor vessel. Quality, innovations, experience - only when everything is in perfect balance, you are sure to get the right result!

Special Products

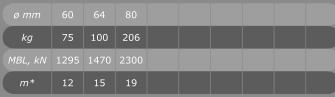
We undertake to elaborate special products to meet all demands of our customers. We develop products to find their application in yachting, fishery, construction, navigation and other sectors. We use our experience and knowledge to make the quality perfect.

Nylon Grommet Nylon Grommet is a round sling plied in half with protected thimbles at both ends to prevent the rope from wear. The galvanized thimbles are resistant to sea water.

Nylon Grommet



NYLON GROMMET is a round sling plied in half with protected thimbles at both ends to prevent the rope from wear. The galvanized thimbles are resistant to sea water. The construction provides for a combination of two braided ropes in one making the grommet well balanced, increasing its resistance to drop loads and protecting the core from wear; that makes the rope life longer even if used in extreme



* length of grommet

Main Properties:

- melting temperature 215°C
- absorb humidity
- low resistance to acids
- standard colour white (any other colour is available)

Nylon Towing Rope



	40	44	48	52	56	
m	10	10	12	15	15	
MBL, kN	307	371	441	517	598	
L	2	2	2	2	2	
cm	30	30	40	50	50	

of transport. The towing ropes are made of Nylon double braided ropes of high tenacity, therefore, can be used for towing of heavy cargo transports, tractors, tow cars and other

On customer's request the slings can be made of other material and length. The diameter of sling is made based on the required breaking strength

The Leader in Rope Production in Eastern Europe

Special Products

Polypropylene 3-strand Sling

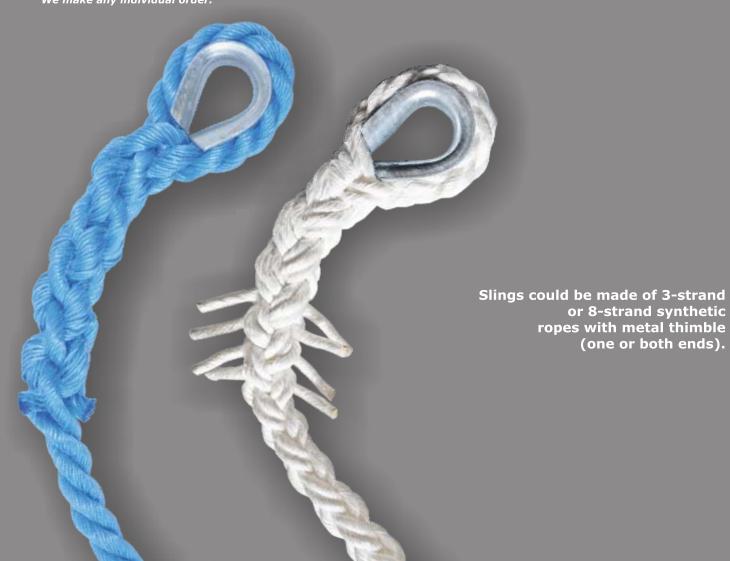


Length, m	
Dia, mm	22
SWL, kg	1700
Safety Factor (SF)	4:1
Breaking load, kN	70
Number of loops	2
Loop length, cm	25-30

or 8-strand synthetic ropes with metal thimble

(one or both ends).

works and, as a rule, to lift and move timber in packages. On customer's request slings can be made in other construction (round We make any individual order.



Snoods (for Long Lines)

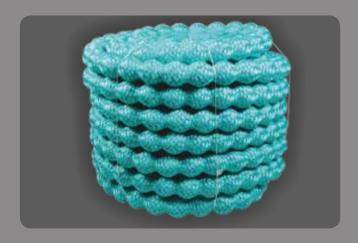


Special snoods with hooks are used for long-line fishing of precious species of fish. Snoods are made of twisted Polyester or Polyamide yarns of different Den depending on No. of hooks to be used.

A standard length of snood is 56 - 64 cm.

with loops or knotted ends. Ready snoods with hooks are usually impregnated with a special Appretan and dyed in blue.

Floated Ropes





floats made of frothed plastic are mounted one by one in 0.5 - 1.0 cm. **Ready core is braided with Polysteel cover on the** 24-strand machine.

Special Products

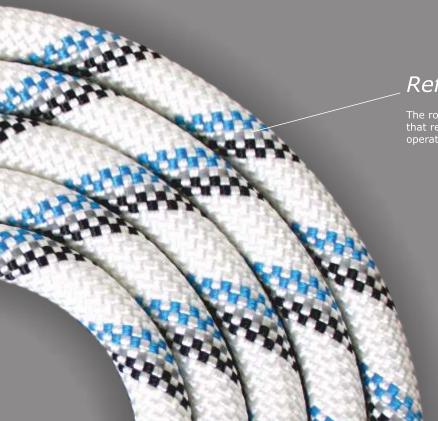
MagStatica and MagStaticaReflect 48-strand Braided Rope with Core (conform to EN 1891)



This Nylon safety rope consists of a polyamide core overbraided with polyamide sheath. This product made for Personal Protective Equipment (PPE). The characteristics required for PPE are low extension during normal working use along with a capacity to withstand forces generated by a fall. Some energy absorption is also desirable for this safety rope, which compromises with acceptable extension during normal working practice. This rope can be used as a working rope or safety rope.

	8,5	10	10,5	11	12	14	16	
g/m	51,5	67,0	72,8	75,0	95,0	130	160	
MBL, kN	24,0	30,5	33,0	35,0	41,0	44,0	54,0	

The main applications of these ropes are: - work at height - work positioning and restraint - rescue operations - speleology



Reflective marker

The rope is also available with **Reflective marker** that reflects the light during the work or rescue operations in the darkness.





Magistr Contacts

Head Office



Main Office

19 Kandavas Street, Daugavpils, LV-5401, Latvia

Tel.: +371 65428578 fax: +371 65429275 e-mail: magistr@magistr.lv www.magistr.lv

Sales and Marketing Department



Head of department Inna Kusnirova phone: +371 65447810 e-mail: inna.sales@magistr.lv

Sales & Logistics manager Aleksandrs Janchevskis phone: +371 65447811 e-mail: aleks@magistr.lv



Deputy Head of Sales & Marketing dept.
Liudmila Shebunina
phone: +371 65447808
e-mail: ludmila@magistr.lv



Sales & Marketing manager Olegs Puzinkevics phone: +371 65447811 **e-mail:** oleg@magistr.lv



Sales & Marketing manager Edvards Osmjanskis phone: +371 65447813 e-mail: edwards@magistr.lv



Sales & Marketing manager Jekaterina Tokareva phone: +371 65447809 e-mail: katrin@magistr.lv

Manufacture



Chief of manufacture Nikolajs Vorobjovs phone: +371 65434005

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