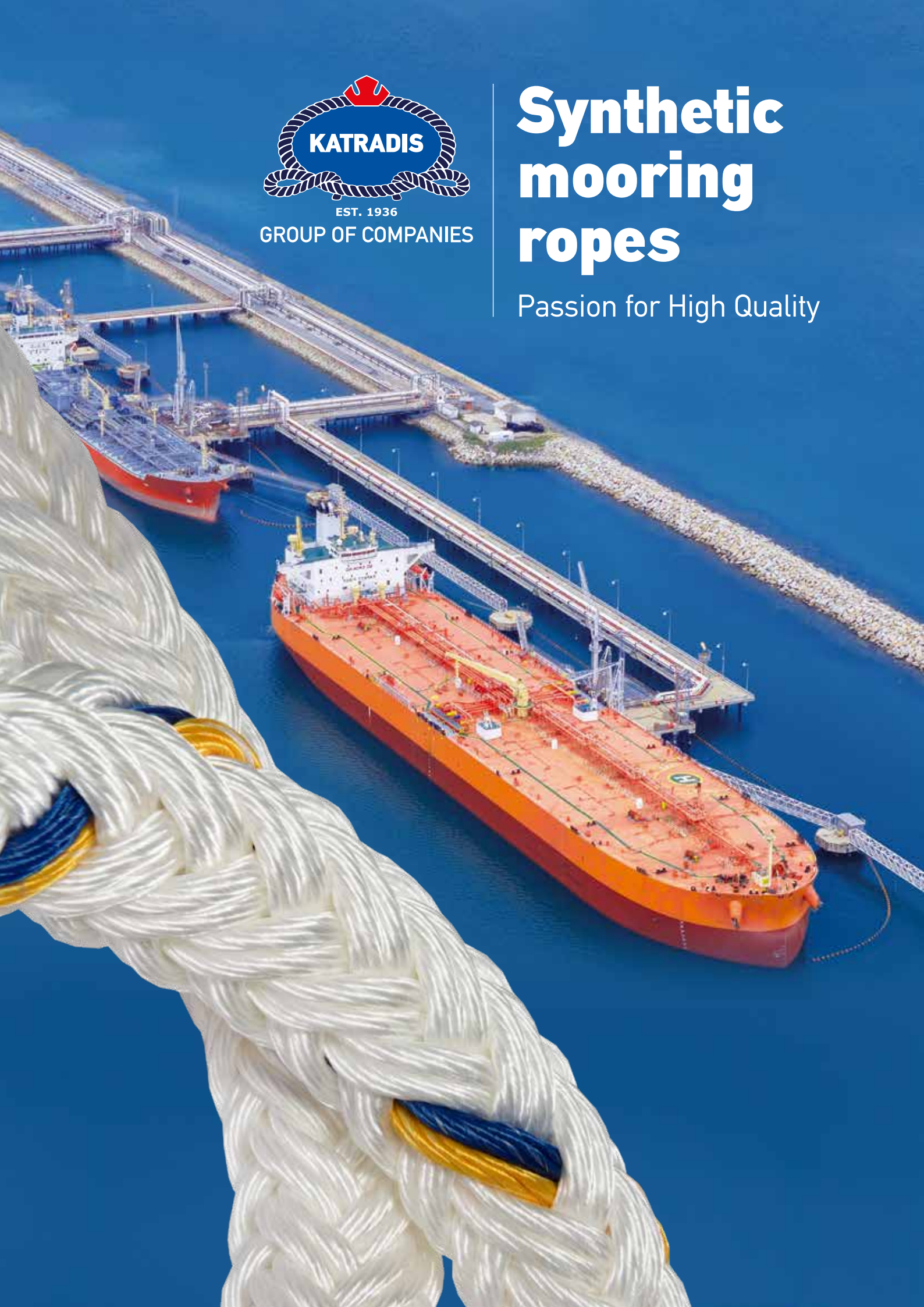




Synthetic mooring ropes

Passion for High Quality





Pioneers of mooring lines

Katradis Group of Companies has a long and distinguished history which goes back to the first half of the twentieth century. The company was established in 1936 by Konstantinos Katradis, operating back then as a ship supplier specializing in high quality mooring ropes.

Currently in the hands of third generation member of the Katradis family, the company has since then become **a pioneer in the field of manufacture of mooring ropes**.

Over the years we have developed extensive expertise in the design and development of **synthetic mooring ropes**, which are our mainline products.

Our rope factory in Greece, whose site covers an area of 50.000m², is one of the **most technologically advanced factories in Europe**, manufacturing top quality ropes for the safe mooring of commercial vessels.

KATRADIS Mooring Ropes exhibit excellent performance and durability compared to commonly used ropes even in the most demanding applications.

Contents

Our success targets - p.5
Specifications of fibers - p.6
MEG4 certification - p.8
Quality Control Testing - p.9

SYNTHETIC MOORING ROPES

Improved 8-12-24 - p.12
Ultra 8-12-24 - p.14
Flex 8-12-24 - p.16
Reduced Snap Back ropes - RSB - p.18
NIKA-Cord - p.20
NIKA Force 8 - p.22
NIKA Polyester 8-12-24 - p.24
NIKA Nylon 8-12-24- p.26
SeaLight 24-12 - p.28

Covered Ropes - p.32
Double Braided Ropes - p.34

Mooring Tails - p.38
Eye Protection - Mooring connection - p.42
Katradis global network - p.44



Our success With numbers

10.046

Vessels all around the world trust KATRADIS products

73

Service points all around the world

9.920

Satisfied customers

Over 12.500

Synthetic mooring ropes produced per year

Serving the marine industry since

Since 1936

Memberships



Certifications





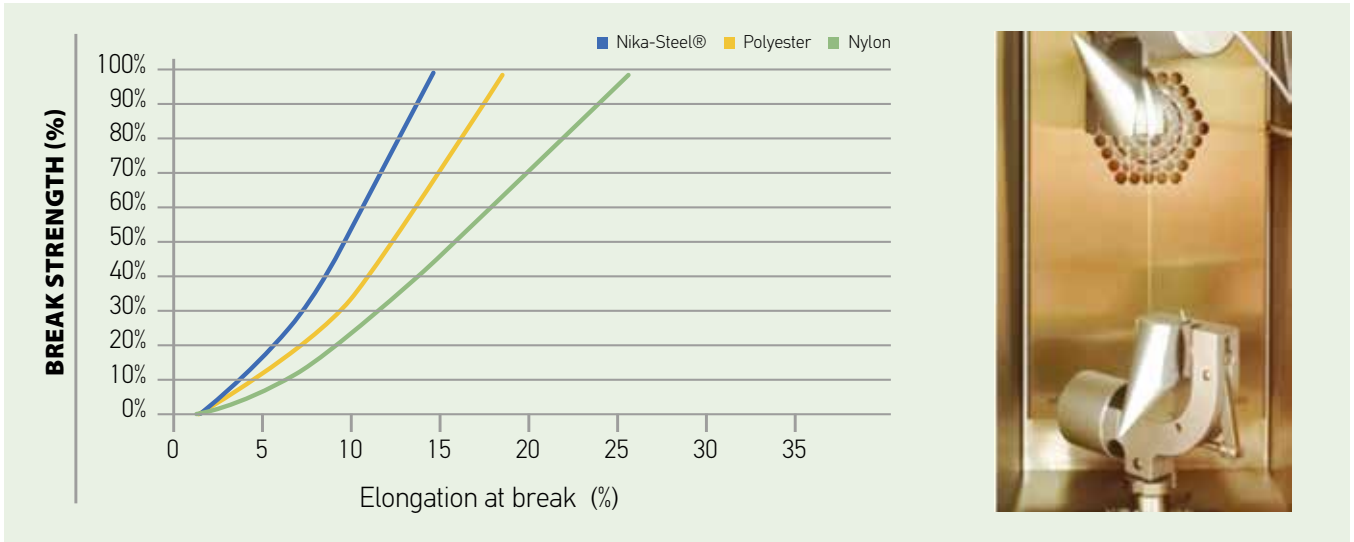
Specifications of fibers

Technical specifications of fibers

BASIC CHARACTERISTICS							
Material	Specific Gravity	Melting point (°C)	Fiber Tenacity (gr/den)	Elongationat break (%)	Abrasion Resistance (0-10)	Water absorption (%)	UV Resistance (0-10)
Polyolefin (NIKA-Steel)	0,91	165	8,2	14	6	<0,01	10
Polyester	1,38	265	9,3	16	8	<0,01	10
Polyamide	1,14	218	9,3	15	7	<0,01	9
Common Polypropylene / Polyolefin	0,91	165	6,5	14	4	<0,01	4

The greener colour indicates beneficial property

Break Strength / Elongation graph



*NIKA-Steel fibers are a special melt mixture of first quality virgin polyolefin raw materials (Polypropylene, Polyethylene and UVstabilizers) combined through a unique recipe that has been developed in-house. Produced in our specialized factory facilities, NIKA-Steel fibers exhibit superior mechanical properties and are used in all manufacture of polyolefin or mixed synthetic ropes.



MEG4 certification

Our ropes are certified according to the latest International Guidelines for mooring - MEG4
Mooring Equipment Guidelines 4th edition, OCIMF)

Published by OCIMF (Oil Companies International Marine Forum), MEG4 represents the best known mooring practice and reflects the move by the marine industry and regulators towards Human-Centered Design principles.

KATRADIS meets the requirements of OCIMF and provides mooring ropes compliant to MEG4 for the safe mooring of commercial vessels (tankers, bulk carriers, LNG / LPG, etc.).



Quality Control Testing

Quality Control is an essential part of all rope production stages that seals the effectiveness of our ropes. All fibre materials in our factory are tested through various properties by authorized personnel using high-tech equipment, in conditions according to DIN, ISO, and ASTM standards.





KATRADIS GROUP OF COMPANIES

Synthetic Mooring Ropes

Passion for High Quality

Our synthetic mooring ropes are trusted for many years in the shipping industry.

Improved 8-12-24



The “best-selling” mixed rope



Combination of specially twisted NIKA-Steel® fibers with high tenacity industrial grade Polyester fibers. Unique construction for maximum performance and ease of handling. Stabilized against UV degradation.

BENEFITS

- Floating
- Long service lifetime
- Same strength efficiency in both wet & dry conditions
- Rotation resistant
- Ideal for applications requiring floating properties and resistance to abrasion
- Excellent endurance in mooring, anchoring and towing (Bulk Carrier- Container- Passenger- Tanker and military vessels)
- Balanced structure, accordant to international standard EN ISO 10556.
- Excellent UV and chemical resistance
- LR Type Approval as per MEG4



IMPROVED 8				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
40	79,0	173,8	34,5	31,4
44	96,0	211,2	40,8	37,1
48	115,0	253,0	48,1	43,7
52	136,0	299,2	54,3	49,4
56	156,0	343,2	63,8	58,0
60	180,0	396,0	70,1	63,7
64	208,0	457,6	81,5	74,1
68	234,0	514,8	89,9	81,7
72	260,0	572,0	100,3	91,2
76	290,0	638,0	112,9	102,6
80	321,0	706,2	125,4	114,0
84	352,0	774,4	134,9	122,6
88	383,0	842,6	141,9	129,0
92	423,5	931,7	152,4	138,6
96	464,0	1020,8	166,0	150,0

SPECIFICATIONS	
Specific gravity	0.99 (Floating)
Elongation at Break	15%-18%
Melting point	165°C(NIKA-Steel®) / 265°C (PES)

IMPROVED 24-12				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
40	79	173.8	34.5	31
44	96	211.2	42	37.8
48	115	253	49.5	44.6
52	136	299.2	57.1	51.4
56	156	343.2	65.7	59.2
60	180	396	75.4	67.9
64	208	457.6	85.1	76.6
68	234	514.8	94.7	85.4
72	260	572	105.5	95.1
76	290	638	117.4	105.7
80	321	706.2	129.2	116.4
84	352	774.4	142.1	128
88	383	842.6	160.7	144.8
96	464	1020.8	182	163.9

Ultra 8-12-24

Efficient and Durable



Stabilized against sunlight degradation with the integration of effective UV stabilizers in the manufacturing process.

BENEFITS

- High tenacity properties
- Firm handling
- Robust construction
- High quality raw materials
- Maintaining the same strength in wet and dry conditions
- Rotation resistant construction which is important for the overall performance.
- Excellent UV and chemical resistance.
- Manufactured according to EN ISO 10556.



ULTRA 8				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
36	71,0	156,2	28,9	26,3
40	89,0	195,8	35,9	32,6
44	107,0	235,4	42,2	38,4
48	128,0	281,6	49,7	45,1
52	151,0	332,2	56,0	50,9
56	173,0	380,6	65,4	59,5
60	201,0	442,2	72,9	66,3
64	225,0	495,0	83,4	75,9
68	257,0	565,4	92,9	84,4
72	289,0	635,8	103,4	94,0
76	324,0	712,8	116,1	105,5
80	358,0	787,6	126,7	115,1
84	395,0	869,0	137,8	125,2
88	430,0	946,0	152,0	138,2

SPECIFICATIONS	
Specific gravity	1.11
Elongation at Break	15%-18%
Melting point	165°C(NIKA-Steel®)/265°C (PES)

ULTRA 24-12				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
36	71,0	156,2	28,9	26,3
40	89,0	195,8	35,9	32,6
44	107,0	235,4	42,2	38,4
48	128,0	281,6	49,7	45,1
52	151,0	332,2	56,0	50,9
56	173,0	380,6	65,4	59,5
60	201,0	442,2	72,9	66,3
64	225,0	495,0	83,4	75,9
68	257,0	565,4	92,9	84,4
72	289,0	635,8	103,4	94,0
76	324,0	712,8	116,1	105,5
80	358,0	787,6	126,7	115,1
84	395,0	869,0	137,8	125,2
88	430,0	946,0	152,0	138,2

NIKA-Flex 8-12-24



Strong and flexible



Optimized construction for achieving very high strength and wear resistance. Manufactured from equal percentages of NIKA-Steel® and high tenacity polyester fibers (w/w 50%-50% respectively). Stabilized against UV degradation.

BENEFITS

- Strong performance
- Very high abrasion resistance
- Firm handling
- Easy operation for your safety
- Structural stability
- High quality raw materials
- Same strength in wet and dry conditions
- Rotation resistant construction which is important for the overall performance.
- Excellent UV and chemical resistance.
- Manufactured in custom made colors and rope lengths according to EN ISO 10556.



NIKA-FLEX 8				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
40	102,0	224,4	44,0	40,0
44	124,0	272,8	52,0	46,8
48	147,0	323,4	60,0	54,0
52	172,0	378,4	70,0	63,0
56	200,0	440,0	81,0	72,9
60	230,0	506,0	91,0	81,9
64	262,0	576,4	103,0	92,7
68	296,0	651,2	116,0	104,4
72	331,0	728,2	128,0	115,2
76	370,0	814,0	145,0	130,5
80	409,0	899,8	159,0	143,1
84	453,0	996,6	175,0	157,5
88	496,0	1091,2	198,0	180,0
92	543,0	1194,6	213,5	192,2
96	590,0	1298,0	229,0	206,1

SPECIFICATIONS	
Specific gravity	1.14
Elongation at Break	15%-18%
Melting point	165°C(NIKA-Steel®)/265°C (PES)

NIKA-FLEX 24-12				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
40	102,0	224,4	44,0	40,0
44	124,0	272,8	52,0	46,8
48	147,0	323,4	60,0	54,0
52	172,0	378,4	70,0	63,0
56	200,0	440,0	81,0	72,9
60	230,0	506,0	91,0	81,9
64	262,0	576,4	103,0	92,7
68	296,0	651,2	116,0	104,4
72	331,0	728,2	128,0	115,2
76	370,0	814,0	145,0	130,5
80	409,0	899,8	159,0	143,1
84	453,0	996,6	175,0	157,5
88	496,0	1091,2	198,0	180,0
92	543,0	1194,6	213,5	192,2
96	590,0	1298,0	229,0	206,1

Reduced Snap Back ropes - RSB

Maximum Safety in Mooring operations



IMPROVED 24-12 RSB



Developed for maximum safety on-board due to the specified construction engineered for reduced snap-back reaction.

BENEFITS

- Floating
- Human-centered design for increased safety in mooring operations
- Extended service lifetime
- Robust rope construction
- High quality raw materials
- Same strength in wet and dry conditions
- Very good chemical resistance.



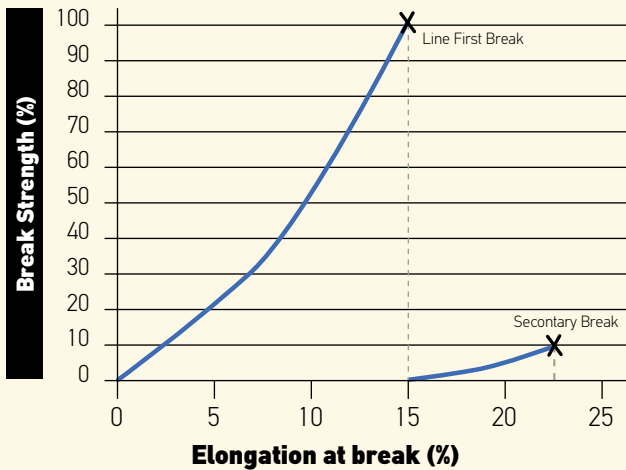
IMPROVED 24-12 RSB

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
36	73,1	160,8	28,6	26,0
40	85,0	187,0	35,5	32,3
44	102,0	224,4	41,8	38,0
48	121,0	266,2	49,2	44,7
52	142,0	312,4	55,4	50,4
56	162,0	356,4	64,8	58,9
60	186,0	409,2	72,2	65,6
64	217,6	478,7	82,6	75,1
68	243,6	535,9	92,0	83,6
72	269,6	593,1	102,4	93,1
76	299,6	659,1	115,0	104,5
80	330,6	727,3	125,4	114,0
84	366,4	806,1	136,4	124,0
88	397,4	874,3	150,5	136,8

SPECIFICATIONS

Specific gravity	0.99 (Floating)
Elongation at First break	15%-18%
Melting point	1165°C(NIKA-Steel®) / 265°C (PES) 218°C(RSB member)

Break Strength / Elongation graph



The two-step partition of the rope is attributed to the RSB member that exhibits higher elongation and restrains the extreme snap-back effect when the rope is stretched to break.

NIKA-CORD

The “Double-twisted” polyolefin rope



Made of Double twisted NIKA-Steel® yarns in 8-strand braided construction. Superior resistance to abrasion and cyclic loading fatigue resulting in very long service lifetime compared to commonly used polyolefin ropes.

BENEFITS

- Floating
 - Very high abrasion and fatigue resistance
 - Increased service life time compared to common polypropylene ropes
 - Easy handling
 - Excellent endurance to cyclic loading.
 - Manufactured according to latest edition of ISO 10572 standard and latest recommendations of OCIMF for the safe mooring of tanker vessels.
- > Ideal choice for polyolefin rope in mooring, anchoring and towing for bulk carriers, containers & passenger vessels
- > Suitable for mooring in areas of high UV sunlight exposure conditions
- > Same strength in wet and dry condition

NIKA-CORD 8				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
40	72,0	158,4	27,9	25,1
44	88,0	193,6	33,3	30,0
48	104,0	228,8	39,2	35,3
52	122,0	268,4	45,7	41,1
56	142,0	312,4	52,4	47,2
60	163,0	358,6	59,4	53,5
64	185,0	407,0	67,0	60,3
68	210,0	462,0	75,3	67,8
72	234,0	514,8	83,6	75,2
76	262,0	576,4	92,5	83,3
80	290,0	638,0	101,5	91,4
84	320,0	704,0	111,4	100,3
88	351,0	772,2	121,3	109,2
92	383,5	843,7	132,0	118,8
96	416,0	915,2	142,7	128,4

SPECIFICATIONS	
Specific gravity	0.91 (Floating)
Elongation at Break	15%-18%
Melting point	165°C(NIKA-Steel®)/265°C (PES)



NIKA-FORCE



The extra strong polyolefin rope



Made from the superior polyolefin Nika-Steel fibers which are produced in-house by Katradis. Very high tenacity and longer service lifetime compare to conventional polypropylene ropes.

BENEFITS

- Floating
- High strength efficiency
- Very easy splicing when needed
- Rotation resistant
- Excellent UV and chemical resistance
- Manufactured according to latest edition of ISO 10572 standard and latest recommendations of OCIMF for the safe mooring of tanker vessels

- > Fit for mooring, anchoring and towing.
- > Same strength in wet and dry conditions
- > High quality raw materials



NIKA-FORCE 8

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
	mm	kg / 100 mtr	kg / 220 mtr	tn
40	72	158	32.2	29.0
44	88	193	40.0	36.0
48	104	228	46.6	42.0
52	122	268	53.3	48.0
56	142	312	61.1	55.0
60	163	358	68.8	62.0
64	185	407	78.8	71.0
68	210	462	89.9	81.0
72	234	514	99.9	90.0
76	262	576	111.0	100.0
80	290	638	121.0	109.0
84	320	704	131.0	118.0
88	351	772	142.1	128.0
96	416	915	167.6	151.0

SPECIFICATIONS

Specific gravity	0.91 (Floating)
Elongation at Break	15%-18%
Melting point	165°C(NIKA-Steel®)/265°C (PES)

NIKA-FORCE 24-12

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
	mm	kg / 100m	kg / 220m	tn
40	72	158	32.2	29.0
44	88	194	40.0	36.0
48	104	229	46.6	42.0
52	122	268	53.3	48.0
56	142	312	61.1	55.0
60	163	359	68.8	62.0
64	185	407	78.8	71.0
68	210	462	89.9	81.0
72	234	515	99.9	90.0
76	262	576	111.0	100.0
80	290	638	121.0	109.0
84	320	704	131.0	118.0
88	351	772	142.1	128.0
96	416	915	167.6	151.0

NIKA-POLYESTER 8-12-24

Made for Superior endurance



Excellent tension-tension (cyclic loading) performance. Manufactured from 100% Polyester fibers of very high tenacity. Stabilized against UV degradation.

BENEFITS

- Very high abrasion resistance
- Firm handling
- Extended service lifetime
- Easy to resplice when needed
- Robust rope construction
- High quality raw materials
- Same strength in wet and dry conditions
- Intended for applications that require high resistance to abrasion.
- Very good chemical resistance.
- Manufactured in custom made colors and rope lengths according to ISO 1141.



NIKA-POLYESTER 8

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
44	141,0	310,2	43,9	39,9
48	175,0	385,0	54,3	49,4
52	196,0	431,2	61,7	56,1
56	238,0	523,6	74,3	67,5
60	262,0	576,4	80,5	73,2
64	310,0	682,0	96,2	87,5
68	344,0	756,8	106,6	96,9
72	378,0	831,6	114,0	103,6
76	422,0	928,4	125,4	114,0
80	466,0	1025,2	141,1	128,3
84	512,0	1126,4	154,7	140,6
88	559,0	1229,8	167,2	152,0
92	614,5	1351,9	185,5	168,7
96	670,0	1474,0	203,8	185,3

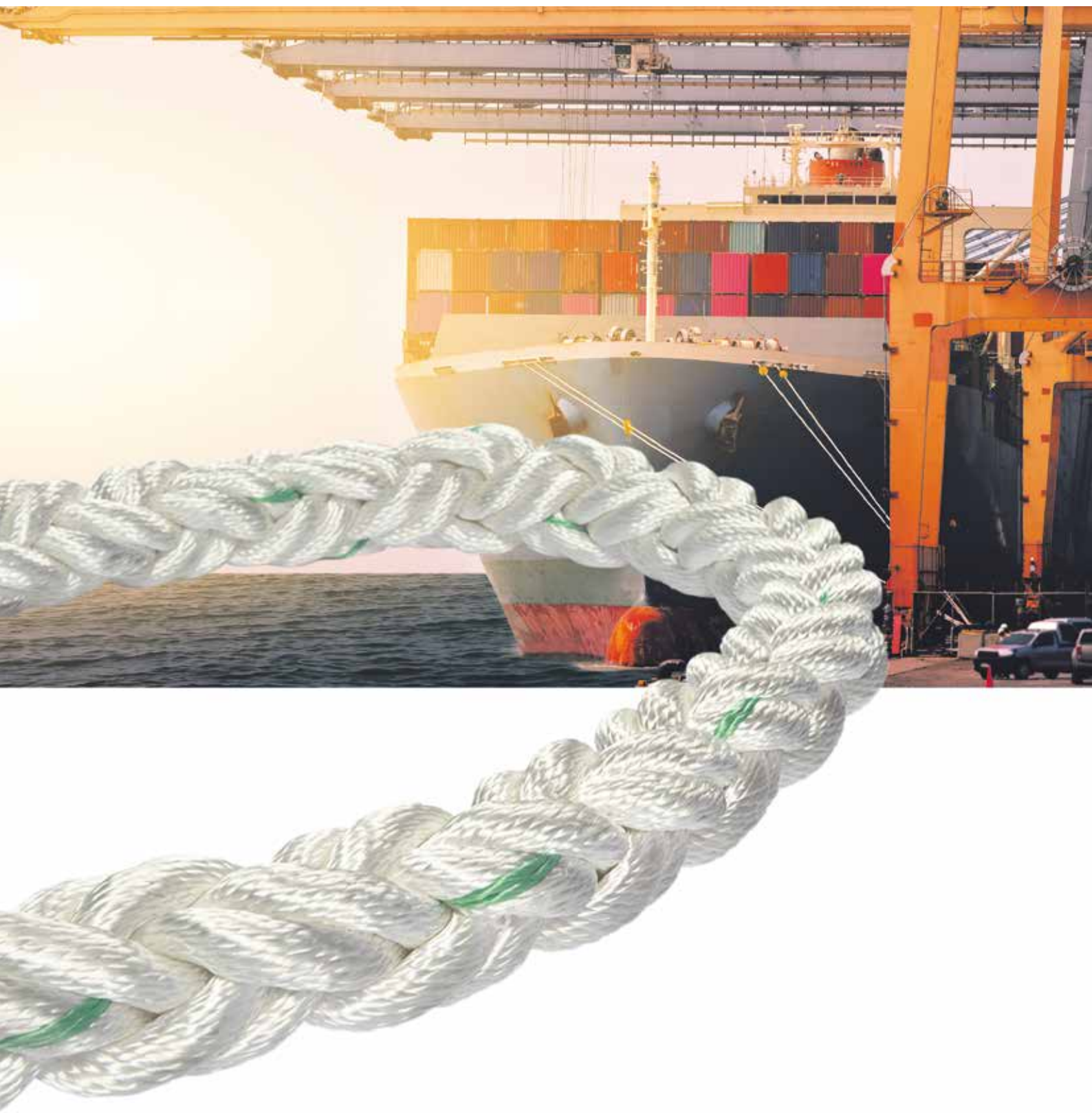
SPECIFICATIONS

Specific gravity	1.38
Elongation at Break	18%
Melting point	265°C

NIKA-POLYESTER 24-12

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg / 100 mtr	kg / 220 mtr	tn	tn
44	141,0	310,2	43,9	39,9
48	175,0	385,0	54,3	49,4
52	196,0	431,2	61,7	56,1
56	238,0	523,6	74,3	67,5
60	262,0	576,4	80,5	73,2
64	310,0	682,0	96,2	87,5
68	344,0	756,8	106,6	96,9
72	378,0	831,6	114,0	103,6
76	422,0	928,4	125,4	114,0
80	466,0	1025,2	141,1	128,3
84	512,0	1126,4	154,7	140,6
88	559,0	1229,8	167,2	152,0

NIKA-NYLON 8-12-24



The “Elastic” rope for marine operations



The perfect choice for applications requiring high elongation properties during operation. Made of 100% high tenacity Polyamide (Nylon) material. Stabilized against UV degradation.

BENEFITS

- Shock load absorbing properties
- Easy to handle
- Finest quality Nylon material
- Robust rope construction
- High quality raw materials
- Same strength in wet and dry conditions
- Ideal type for mooring tails connected with wire ropes or high modulus ropes.
- Very good chemical resistance.
- Manufactured according to ISO 1140.



NIKA-NYLON 8

Size (Diam)	Weight (+/- 5%)		MBL (ISO 2307)	LDBF (MEG4)
	mm	Kilos /100m	Kilos /220m	Tons
40	99	218	40	34,0
44	120	264	48	40,8
48	142	312	58	49,3
52	166	365	67,5	57,4
56	193	425	77	65,5
60	221	486	88,5	75,2
64	253	557	101	85,9
68	286	629	115	97,8
72	319	702	130	110,5
76	357	785	143,5	122,0
80	394	867	158,5	134,7
84	437	961	175	148,8
88	477	1049	192	163,2
96	568	1250	213	181,0

SPECIFICATIONS

Specific gravity	1.14
Elongation at Break	30%
Melting point	218°C

NIKA-NYLON 24-12

Size (Diam)	Weight (+/- 5%)		MBL (ISO 2307)	LDBF (MEG4)
	mm	Kilos /100m	Kilos /220m	Tons
40	99	218	40	34,0
44	120	264	48	40,8
48	142	312	58	49,3
52	166	365	67,5	57,4
56	193	425	77	65,5
60	221	486	88,5	75,2
64	253	557	101	85,9
68	286	629	115	97,8
72	319	702	130	110,5
76	357	785	143,5	122,0
80	394	867	158,5	134,7
84	437	961	175	148,8
88	477	1049	192	163,2
96	568	1250	213	181,0

SeaLight 24-12

The Ideal Rope for Cruise Vessels



Sealite 24-12 ropes have been developed especially for the mooring operations of Cruise Vessels offering a unique combination of strength & floatability. The cover yarns of each strand of fiber ropes are made with polyester fibers covering a polyolefin core and contain a minimum of 40 % by mass of polyester fiber. Their construction not only enhances rope handling and performance during port maneuvers but also ensures long-lasting resilience in the harsh marine environment.

BENEFITS

- Floating
- Long service lifetime
- Same strength efficiency in both wet & dry conditions
- Rotation resistant
- UV Resistant
- Ideal for applications requiring abrasion resistance
- Easy to handle – User friendly



SEALITE 24/12				
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg /100 mtr	kg / 220 mtr	tn	tn
40	79.0	173.8	34.5	31.4
44	96.0	211.2	40.8	37.1
48	115.0	253.0	48.1	43.7
52	136.0	299.2	54.3	49.4
56	156.0	343.2	63.8	58.0
60	180.0	396.0	70.1	63.7
64	208.0	457.6	81.5	74.1
68	234.0	514.8	89.9	81.7
72	260.0	572.0	100.3	91.2
76	290.0	638.0	112.9	102.6
80	321.0	706.2	125.4	114.0
84	352.0	774.4	134.9	122.6
88	383.0	842.6	141.9	129.0
92	423.5	931.7	152.4	138.6
96	464.0	1020.8	166.0	150.0

SPECIFICATIONS	
Specific gravity	0.99 (Floating)
Elongation at Break	15%-18%
Melting point	165°C(NIKA-Steel®) / 265°C (PES)



EST. 1936

KATRADIS GROUP OF COMPANIES

Covered and Double Braided Ropes

Made for demanding operations

- Ideal for mooring lines installed on winches
- Designed for extended service life

Covered Ropes

NIKA-STEEL COVERED



Supreme winchline for effective mooring. NIKA-Steel core rope overbraided by a non-load bearing Polyester jacket. UV stabilized materials for resistance against degradation due to sunlight.

BENEFITS

- Higher resistance against external abrasion compared to single braided ropes
- Rotation Resistant
- Excellent performance on winches
- Floating
- Very good resistance against UV sunlight & chemicals

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
	mm	kg / 100 mtr kg / 220 mtr		
40	94	206,8	36,0	32,4
44	113	248,6	45,8	41,22
48	135	297	56,2	50,58
52	158	347,6	62,7	56,43
56	180	396	71,9	64,71
60	212	466,4	87,3	78,57
64	244	536,8	103,8	93,42
68	275	605	112,1	100,89
72	304	668,8	123,7	111,33
76	340	748	142,3	128,07
80	374	822,8	153,2	137,88
84	416	915,2	164,9	148,41
88	454	998,8	184,5	166,05

SPECIFICATIONS	
Specific gravity	0.99 (Floating)
Elongation at Break	15% - 18%
Melting point	165°C (NIKA-Steel®) / 265°C (PES)

NIKA-POLYESTER COVERED



High Tenacity marine grade Polyester material both in core (load bearing) and cover (non-load bearing) construction.

BENEFITS

- Very high service life
- Excellent abrasion resistance
- Torque free
- UV stabilized rope construction
- Excellent resistance to tension-tension fatigue
- Ultimate endurance in mooring operations

Size (Diam)	Weight (+/- 5%)		MBL (ISO 2307)	LDBF (MEG4)
	mm	Kilos /100m Kilos /220m		
40	128	281,6	61,6	58,5
44	147	323,4	73,4	69,7
48	173,3	381,3	85,2	80,9
52	196,3	431,9	99,5	94,5
56	226,7	498,7	114,4	108,7
60	253,7	558,1	129,7	123,2
64	282,7	621,9	147,6	140,2
68	310,1	682,2	162,3	154,2
72	346,1	761,4	180,2	171,2
76	397,6	874,7	204,2	194,0
80	427,6	940,7	222,2	211,1
84	468	1.029,6	242,6	230,5
88	505.3	1.111,7	252,2	239,6

SPECIFICATIONS	
Specific gravity	1.38
Elongation at Break	18%
Melting point	265°C

NIKA-NYLON COVERED



Finest quality Polyamide material (100% Nylon) exhibiting very high elongation. Load bearing core rope overbraided by a non-load bearing cover for excellent resistance to external abrasion.

BENEFITS

- Flexible in handling
- Rotation Resistant
- Shock load absorbing properties
- Ideal choice for applications requiring high elongation properties
- When wet, there is expected strength loss of approximately 10% which is recovered once dry again

Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
	mm	kg / 100m mtr kg / 220 mtr		
40	104	228.8	49.7	45.2
44	126	277.2	63.6	57.8
48	150	330	71.7	65.1
52	176	387.2	87.5	79.5
56ç	205	451	103.5	95.8
60	234	514.8	123.8	112.6
64	267	587.4	136.5	124.1
68	300	660	156.7	142.5
72	337	741.4	175.6	159.6
76	376	827.2	192.3	174.8
80	417	917.4	216.5	196.8
84	460	1012	226.9	206.2
88	505	1111	253.6	230.5

SPECIFICATIONS	
Specific gravity	1.14
Elongation at Break	30%
Melting point	218°C

NIKA-STEEL MULTI COVER



High abrasion resistant and non-load bearing jacket covering a NIKA-Steel core rope. UV stabilized materials for resistance against degradation due to sunlight.

BENEFITS

- Floating
- Rotation Resistant
- Easy warping on winchdrums
- Excellent resistance to abrasion, sunlight & chemicals
- Good resistance to cyclic loading
- Equal strength in wet and dry conditions

Size (Diam)	Weight (+/- 5%)		MBL (ISO 2307)	LDBF (MEG4)
	mm	Kilos /100m Kilos /220m		
40	75,5	166	30	28,5
44	93,5	205,5	37	35,2
48	110	242	43	40,9
52	128,5	283	50	47,5
56	149	327,5	57	54,2
60	172,5	379,5	64	60,8
64	194	427	73	69,4
68	221	486	84	79,8
72	247	543	93	88,4
76	275	605	104	98,8
80	304,5	670	115	109,3
84	336	739	123	116,9
88	368,5	810,5	134	127,3

SPECIFICATIONS	
Specific gravity	0.91
Elongation at Break	15%-18%
Melting point	165°C

Double Braided Ropes

NIKA-STEEL DOUBLEBRAIDED



NIKA-Steel core rope overbraided by a robust load-bearing cover of mixed NIKA-Steel /Polyester material.

BENEFITS

- Floating
- Very long service lifetime
- Ideal for installation on mooring winches
- Easy to handle, rotation resistant
- Very good performance during cyclic loading conditions
- Not affected by moisture

NIKA-POLYESTER DOUBLEBRAIDED



Industrial grade Polyester (100%) material. Double braided construction of enhanced endurance against external and internal abrasion.

BENEFITS

- Flexible
- Torque free
- Easy to operate on winchdrums and fairleads
- Optimal resistance against tension-tension fatigue
- Not affected by moisture

NIKA-NYLON DOUBLEBRAIDED



High Tenacity Polyamide material (100% Nylon), with the most effective ability to absorb dynamic loads.

BENEFITS

- Flexible in handling
- The highest elongation properties
- Finest quality of Polyamide raw material
- Twist resistant
- UV stabilized material

	NIKA-STEEL DOUBLEBRAIDED				NIKA-POLYESTER DOUBLEBRAIDED				NIKA-NYLON DOUBLEBRAIDED			
Nom. Size (Diam)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)	Weight (+/- 5%)		MBL (acc. ISO 2307)	LDBF (acc. MEG4)
mm	kg/100mtr	kg / 220 mtr	tn	tn	kg/100mtr	kg / 220 mtr	tn	tn	kg/100mtr	kg / 220 mtr	tn	tn
36	70,0	154,0	28,0	25,2	100,9	222,1	28,8	25,9	80,5	177,1	30,2	27,2
40	88,0	193,6	34,0	30,6	125,4	276,0	35,3	31,8	99,0	217,8	37,2	33,5
44	106,0	233,2	39,0	35,1	150,9	332,0	42,4	38,2	120,0	264,0	44,9	40,4
48	125,0	275,0	48,0	43,2	180,3	396,7	50,2	45,2	143,0	314,6	53,4	48,1
52	148,0	325,6	55,0	49,5	211,7	465,7	58,6	52,7	168,0	369,6	62,6	56,3
56	169,0	371,8	64,0	57,6	245,0	539,0	67,4	60,7	195,0	429,0	72,5	65,3
60	200,0	440,0	71,0	63,9	281,3	618,8	77,1	69,4	223,0	490,6	83,1	74,8
64	228,0	501,6	83,0	74,7	319,5	702,9	87,3	78,5	254,0	558,8	94,6	85,1
68	257,0	565,4	92,8	83,5	362,1	796,6	98,2	88,3	286,0	629,2	107,3	96,5
72	285,0	627,0	103,0	92,7	404,7	890,4	109,1	98,2	321,0	706,2	120,0	108,0
76	319,0	701,8	116,0	104,4	452,3	995,1	121,6	109,5	358,0	787,6	133,6	120,3
80	353,0	776,6	126,0	113,4	499,8	1099,6	134,2	120,7	397,0	873,4	147,2	132,5
84	390,0	858,0	137,0	123,3	552,3	1215,1	147,8	133,0	438,0	963,6	162,5	146,3
88	425,0	935,0	150,0	135,0	604,7	1330,3	161,4	145,3	481,0	1058,2	177,8	160,0
92	463,0	1018,6	165,0	148,5	662,5	1457,5	176,2	158,5	526,5	1158,3	194,7	175,2
96	501,0	1102,2	180,0	162,0	720,3	1584,7	190,9	171,8	572,0	1258,4	211,6	190,4

SPECIFICATIONS		SPECIFICATIONS		SPECIFICATIONS	
Specific gravity	0.99 (Floating)	Specific gravity	1.38	Specific gravity	1.14
Elongation at Break	15% - 18%	Elongation at Break	18%	Elongation at Break	30%
Melting point	165°C (NIKASteel®) / 265°C (PES)	Melting point	265°C	Melting point	218°C



Rope Protection

Mooring ropes are constantly operating in various working conditions and come in contact with deck surfaces where the use of protective sleeves is crucial for their service life. KATRADIS has developed a series of protective sleeves for safer operations and optimizing the working conditions of mooring ropes.

Extra Protective sleeves for abrasion resistance



NIKA-GUARD

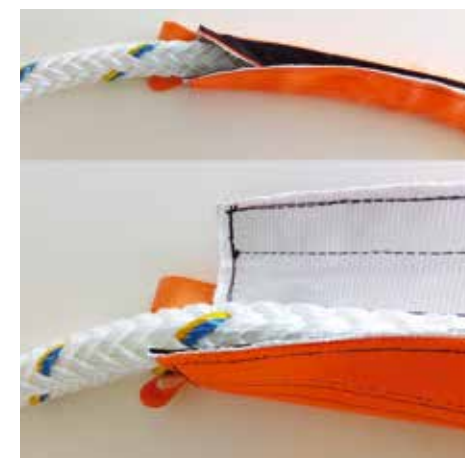
The Polyester protection for your rope

An excellent cost-effective option to protect your ropes! Nika® Guard is a Flat Polyester webbing pad. The Velcro® scratch tape, firmly stitched on the sleeve guard, is used for quick & easy installation and removal.

• Standard length: 2m - Longer lengths also available at request

FEATURES:

• Fixed or adjustable for easy positioning • Extends significantly the service life of synthetic ropes • Abrasion resistant • Light and flexible



NIKA-GUARD ULTRADOUBLE

The special Double-layered webbing for chafe protection

Developed for excellent performance and protection of synthetic mooring lines against abrasion conditions during mooring operations. It is manufactured using a combination of High Tenacity polyester and UHMWPE webs in a double-layer sleeve construction. The polyester layer of the webbing sleeve is fixed on the outer side while the UHMWPE layer protects the rope from the inside

• Length 2,5 m

FEATURES:

• Fixed or adjustable for easy positioning • Smooth surface protection upon the mooring line • Abrasion and cut resistance • Easy attached on the line using Velcro scratch tape



Mooring Tails

**Strong and Flexible connection
with your main mooring line.**

Mooring Tails

Which mooring tails are appropriate for your application?

The right material and required elasticity

Depending on the requirements of the mooring conditions and port type, the selection of the material may vary among mixed Polyolefin/Polyester, Nylon or Polyester fibers. NIKA-Nylon mooring tails exhibit the highest elongation properties, which makes this tail type ideal for reducing high dynamic loads especially in exposed berths. NIKA-Nylon tails of 22m length are recommended for operations at exposed terminals where shock loads are more frequent. Medium to high elasticity is expected by other types of mooring tails (Mixed Polyester/ Nikasteel and 100%Polyester respectively). Also, the water absorbancy must be taken into consideration. Nylon material absorbs water and degrades more rapidly compared to Mixed or Polyester materials that have equal strength either in wet or dry conditions.

There are two basic types of Mooring tails. The single leg and the grommet type:

Single leg

Single leg tails are the most common type of tails used in a variety of applications (mooring, towing etc.) This construction has standard two soft eyes, one of 1,8m (6 feet) length and the other of 0,9m (3 feet) length. Standard lengths for tankers, LNG and LPG vessels are 11m and 22m but any length can be produced according to client requirements.

Grommet Type

Grommet type tails are used in special applications requiring high strengths. They have standard two soft eyes, one of 1,8m (6 feet) length and the other of 0,9m (3 feet) length. The eyes are formed by lashings (seizing the two rope bodies together to form an eye). The strength of a Grommet mooring tail is 1,6 times the strength of a single leg (of the same material, construction and size) and its length depends on the customer’s special requirements.



Retirement criteria of mooring tails

It is recommended as per MEG4 to retire mooring tails when the TDBF is reduced to 75% of the ship design MLB (MLBSD), unless inspection calls for earlier retirement. For more information consult the User’s Manual for Synthetic Mooring Tails (provided by KATRADIS SA).



NIKA-NYLON 8-12-24



Nylon tails exhibit excellent dynamic load and shock absorption properties. 22m Nylon Mooring tails are ideal in exposed berths/ terminals.

Nom. Size (Diam)	MBL (acc. ISO 2307)	TDBF (acc. MEG4)
mm	Tons	Tons
68	115,0	101,2
72	130,0	114,4
76	143,5	126,3
80	158,5	139,5
84	175,0	154,0
88	192,0	169,0
92	202,5	178,2
96	213,0	187,4

Specific gravity	1,14
Melting point:	218°C
Elongation at breaking:	30%
Fiber water absorption	3-5%
Chemical resistance	Very Good

NIKA-POLYESTER 8-12-24



Polyester tails are fit for applications where abrasion resistance is needed. Made of high-Tenacity marine grade Polyester fibers.

Nom. Size (Diam)	MBL (acc. ISO 2307)	TDBF (acc. MEG4)
mm	Tons	Tons
68	106,6	96,9
72	114,0	103,6
76	125,4	114,0
80	141,1	128,3
84	154,7	140,6
88	167,2	152,0
92	185,5	168,7
96	203,8	185,3

Specific gravity	1,38
Melting point:	265°C
Elongation at breaking:	18%
Fiber water absorption	0,1%
Chemical resistance	Very Good

NIKA-FLEX 12 RSB



The special Reduced Snap Back design includes internal member made to protect from the recoiling in case of partition. NIKA-FLEX RSB tails is the choice for safer mooring operations

Nom. Size (Diam)	MBL (acc. ISO 2307)	TDBF (acc. MEG4)
mm	Tons	Tons
68	116,0	110,2
72	128,0	121,6
76	145,0	137,8
80	159,0	151,1
84	175,0	166,3
88	193,0	180,0
92	213,5	202,8
96	229,0	217,6

Specific gravity	1.14
Melting point:	165°C NIKA-Steel® / 265°C Polyester
Elongation at breaking:	15-18%
Fiber water absorption	0,1 %
Chemical resistance	Very Good

NIKA-FLEX 8-12-24



Flex tails are specially engineered for demanding applications where high strength and excellent abrasion resistance are a must.

Diam	MBL acc. ISO 2307	TDBF acc. MEG4
mm	Tons	Tons
68	122	115.5
72	136	128
76	153	144.5
80	170	160
84	184	174
88	205	193
92	223	210
96	242	228

Specific gravity	1.14
Melting point:	165°C NIKA-Steel® / 265°C Polyester
Elongation at breaking:	15-18%
Fiber water absorption	0,1 %
Chemical resistance	Very Good

Eye Protection



Polyester Eye Protector Special braided polyester sleeves

Polyester Eye Splice Protector is a special braided cover designed for extra protection of the eye splices. In demanding applications, the Polyester Eye Splice Protector will satisfy every end-user with its endurance. Polyester Eye Splice Protector is made from specially twisted polyester fibers. The application of Nika® Thane-P coating reduces both internal and external friction and offers excellent protection.

- FEATURES:**
- Excellent abrasion resistance • UV resistance • Flexible
 - Excellent choice for tails

Mooring Connection

Connecting the mooring tails with the main high modulus line or wire requires attention to detail and effective equipment in order to ensure that 100% of the rope performance is achieved. Below there are given two most applicable types of line-tail connection.



Cow-Hitch

Approved by MEG4 (OCIMF). Field experience and extensive in-house testing has shown zero impact on the mooring line's strength with this type of connection, if prepared with special NIKA-Eye Protection.

- FEATURES:**
- Floating mooring line when used with a floating tail • Reduced cost
 - Very easy to handle • Light and flexible • By using Nika Eye protection we avoid the reduction of the mooring line's strength



Link Mandal or Tonsberg

A standard practice when connecting the mooring tail with a wire-rope or mooring ropes.

- FEATURES:**
- Robust connection • Used without reduction of mooring line strength



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Worldwide relationships!

We provide you with access to our stock at all major ports with the support of the extensive global network of affiliated establishments, agents, suppliers and representatives. We guarantee immediate & reliable services all around the world.

Katradis Global Network

Africa: Egypt (Alexandria, Port Said, Suez) | South Africa (Durban, Cape Town)

Asia: Singapore (Singapore) | South Korea (all ports) | China (Hong Kong, Shanghai, Qingdao, Zhenjiang & other ports)

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North America: Canada (Montreal) USA (Houston, New Orleans, New York, Los Angeles)

Central America: Panama (Panama), Costa Rica



- Synthetic Mixed and High Modulus Ropes
- Steel Wire Ropes
- Sacrificial Anodes
- Anchors & Anchor Chains

- Port Development Equipment
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11, Psaron str., 186 48 Piraeus, Greece, T: +30 2104060300
F: +30 2104626268 - E: info@katradis.com - www.katradis.com

