



RSB_ Reduced Snap Back

Maximum safety in mooring operations



EST. 1936

KATRADIS GROUP OF COMPANIES

New era in safety mooring

Mooring operation is one of the **most important and critical tasks** that are performed on vessels by the seafarers. **Securing a ship** to a terminal is highly demanding and very often it hides many dangers for crew/ personnel and equipment if all safety factors related to mooring rope are not properly addressed. In the serious event of rope partition, an extreme amount of energy is released resulting in a rapid recoiling effect which in many cases can cost human lives. This is known as the **snap-back effect**.

Katradis Marine Ropes Industry SA focused on the most effective solutions for the marine industry, always goes the extra mile, in order to provide the maximum safety in every mooring operation.

That is why our **fully equipped R&D department** has developed the new rope series with the most reduced snap-back effect (RSB). Made of specific fundamental principles in rope manufacturing, these ropes will tend to restrain the rapid recoiling in case of partition and contribute to the overall safety during operations.



NIKA-Siri S12 SB®

RSB - Reduced Snap Back



KATRADIS MARINE ROPES INDUSTRY SA in the effort to provide maximum safety in mooring operations, has developed the NIKA-Siri® S12 SB – RSB (Reduced Snap Back), the High Modulus ropes with the most reduced snap-back effect.

The human-centered design of the ropes is the key characteristic of the NIKA-Siri® S12 SB - RSB ropes, while maintaining the high performance and very long service lifetime.

The Reduced Recoil effect has been tested successfully and complies with CI 1502 (Test Method for Reduced Recoil Risk Rope) and also with the latest regulations and recommendations of OCIMF for the safe mooring of worldwide trading vessels.

Siri® Heat Setting process

The application of NIKATHANE coating and the heat-setting process improve drastically the structural stability and the strength efficiency of the rope. Also, this procedure enhances the abrasion resistance and increases the rope's coefficient of friction for better gripping performance when used in winches, capstans, chocks, bitts etc.

NIKA-Siri® S12 SB – RSB ropes are ideal for rope replacement due to their very high strength-to-weight ratio, lightweight characteristics and negligible maintenance costs.

APPLICATIONS:

- Mooring / Tow lines / STS Operations (to be used with synthetic tails)
- Anchoring



SPECIFICATIONS

Specific gravity	0.96 (floating)
Elongation at First Break	3,5%
Melting point	145 °C (UHMWPE) / 165 °C (RSB member)
Resistance to UV radiation	Excellent
Chemical Resistance	Very Good

TABLE OF TECHNICAL DATA

Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
	Kilos /100m	Kilos /220m	
mm			Tons
24	38,53	84,76	58,3
26	45,08	99,13	66,2
28	51,98	115,92	74,5
30	62,10	136,62	85,1
32	67,85	149,27	95,2
34	74,18	163,19	101,5
36	82,57	181,70	110,2
38	92,35	203,21	124
40	101,78	223,91	136,5
42	113,39	249,44	152
44	123,51	272,09	164,5
46	132,25	290,95	180,5
48	146,05	321,31	195,2
50	158,24	348,11	205,1
54	165,95	365,13	221
56	195,96	431,14	252,1
60	218,96	481,74	279,5
64	258,64	569,02	312,5

Improved Mixed NIKA-Steel® 12-strands

RSB - Reduced Snap Back

IMPROVED Mixed NIKA-Steel® RSB (Reduced Snap Back) is the rope developed for maximum safety on-board due to the specified construction engineered for reduced snap-back reaction.

The reduced recoil effect is accomplished with the use of an inner-braid rope structure that will enable the restraining of snap-back release in case of partition. Due to the different elongation properties of the primary rope member and the Recoil Controller, the recoiling of the rope is reduced, which increases the safety on-board.

Manufactured from High Tenacity Polyester and the superb NIKA-Steel® fibers (developed by KATRADIS MARINE ROPES INDUSTRY SA), these ropes are ideal choice for frequent use in a wide range of applications.

The Reduced Recoil effect has been tested successfully and complies with CI 1502 (Test Method for Reduced Recoil Risk Rope).

Improved Mixed NIKA-Steel® RSB ropes are ideal for applications requiring floating properties and resistance to abrasion. Also, their efficiency remains the same both in wet and dry conditions.

Improved Mixed NIKA-Steel® RSB ropes are manufactured to comply with the latest regulations and recommendations of OCIMF for the safe mooring of tankers.

APPLICATIONS:

- Mooring
- Anchoring
- Ails



SPECIFICATIONS

Specific gravity	0.99 (floating)
Elongation at First Break	15%
Melting point	165 °C (NIKA-Steel®) / 265 °C (Polyester) / 165 °C (RSB member)
Resistance to UV radiation	Excellent
Chemical Resistance	Very Good

TABLE OF TECHNICAL DATA

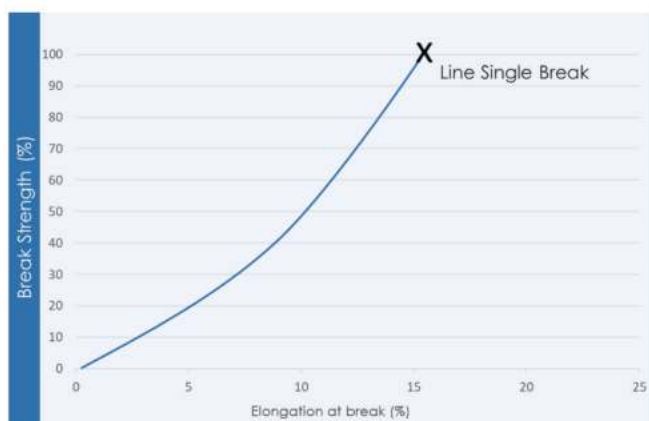
Size (Diam)	Weight (+/- 5%)		Minimum Breaking Load
	Kilos /100m	Kilos /220m	
mm			Tons
28	47,15	103,5	17,5
32	67,85	149,5	23
36	76,475	167,9	28
40	90,85	200,1	34
44	110,4	242,65	40
48	132,25	290,95	47
52	156,4	343,85	53
56	179,4	393,3	62
60	207	455,4	69
64	239,2	526,7	79
68	269,1	592,25	88
72	299	657,8	98
76	333,5	733,7	110
80	369,15	811,9	121
84	404,8	890,1	132
88	440,45	968,3	144
96	533,6	1173	169

The Maximum safety in Mooring Ropes

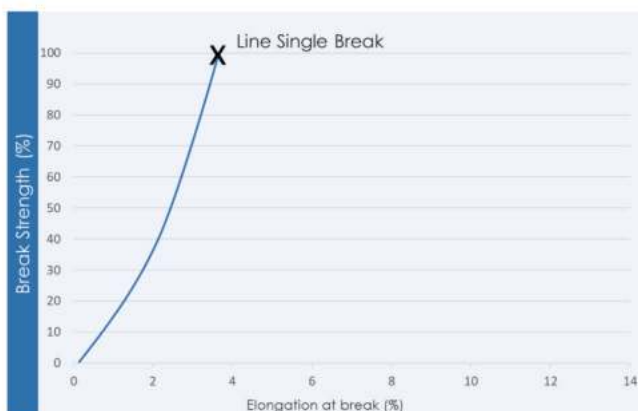
with the unique construction specialized for reduced snap back

Standard Construction

IMPROVED Mixed NIKA-Steel 12str Standard Construction

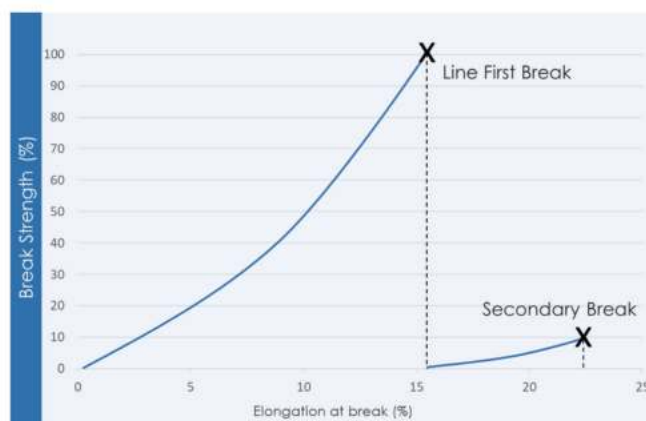


NIKA-Siri S12 SB Standard Construction



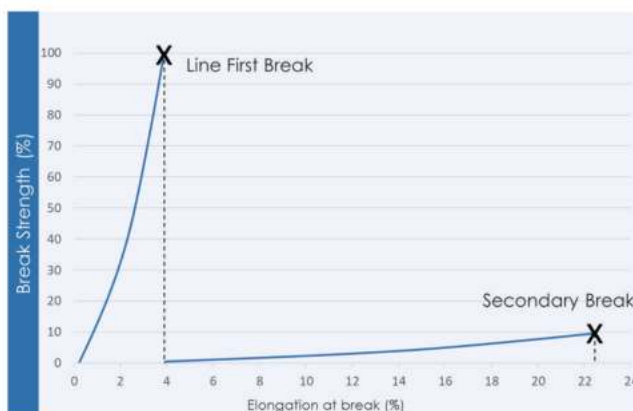
RSB - Reduced Snap Back

IMPROVED Mixed NIKA-Steel 12 str Reduced Snap Back



The higher elongation of the RSB member results in a two-step rope partition and reduces the extreme snap-back effect.

NIKA-Siri S12 SB Reduced Snap Back



The higher elongation of the RSB member results in a two-step rope partition and reduces the extreme snap-back effect.

R&D department

Up-to-date quality testing



Our fully equipped R&D department has developed the new rope series with the most reduced snap-back effect (RSB)

RSB. Reduced Snap Back

**Safety first.
For a human
centered design.**





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)

Europe: Belgium (Antwerp, Zeebrugge) | Germany (Hamburg) | Netherlands (Rotterdam, Amsterdam) Spain (Algeciras, Cadiz, Las Palmas) | Turkey (all ports) | Bulgaria (Varna) | Greece (all ports) | Cyprus (all ports)

Middle East: U.A.E. (Fujairah, Dubai, Sharjah, Jebel Ali)

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

Central America: Panama (Panama)

Australia: (Brisbane, Sydney, Melbourne, Adelaide, Fremantle and Darwin)



KATRADIS GROUP OF COMPANIES

Maximum safety in mooring operations

**HMPE, LCP, Aramid & Mixed Ropes for LNG/LPG/Tankers/Bulk Carriers & Offshore Applications - Steel Wire Ropes
Sacrificial Anodes - Anchors & Anchor Chains - Port Development & Vessel Deck Equipment**

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