armare
ROPES & CABLES

Endurance Projects
Racing line
2026

ENGLISH VERSION

Armare Ropes

"Armare" means "to provide a ship with all she needs to sail" or "to equip a sailing vessel." The company's name embodies its vision and connection to everything a vessel may require. Today, Armare carries forward a long family tradition, where expertise has been passed down from father to son for generations.

All our ropes are meticulously designed, manufactured and tested in Italy, at our facilities in San Giorgio di Nogaro (Udine), in the North East of Italy. In-house we perform twisting, stranding, braiding, special treatments, splicing, testing and hand-finishing—ensuring uncompromising quality at every stage.

Our extensive product range includes technical solutions for sailing and motor yachts, as well as cordage for sailmaker, professional fishing, aerospace, military, medical, sports, oceanographic and various industrial applications. A hallmark of Armare Ropes is the ability to offer finishes allowing project managers, riggers, shipowners, and shore teams to meet any requirement with tailored solutions.

Discover more on: **armareropes.com**

Contact our Sales and Technical Department for any question about our products. Mail to: **info@armare.it**

Range Overview

At Armare, we craft high-performance ropes and marine solutions for every sailing adventure. From racing yachts to cruising vessels, our products combine innovation, durability and precision, to meet the needs of the sailors worldwide.

Endurance Projects – Ropes built for long-lasting strength and reliability.
Superyacht – Luxury solutions designed for premium performance.
Racing – High-tech ropes for competitive sailing and elite performance.
Performance – Optimized for speed, efficiency and control.
Cruising – Comfort, safety and reliability for all.
One Design / Dinghies – Ropes tailored for small-class racing.
Mooring – Secure, durable, reliable solutions for docks and berths.
Classic – Timeless design with traditional craftsmanship.
Multi Use and Accessories – Practical solutions for all marine needs.
Rigging – Quality items for the professionals of the sea.
Sailmaker - For all sailmaker needs.
Cables & Standing Rigging - PBO®, Kevlar® and Dyneema® solutions.

At the forefront of respect for the environment

At Armare Ropes, sustainability is not a choice—it's our responsibility. We are committed to minimizing environmental impact while ensuring our ropes perform at the highest level. We are proud to be the first company in the nautical sector worldwide to develop and certify two Environmental Product Declarations (EPDs) for our ropes, setting a new benchmark in transparency and accountability. With over two centuries of maritime tradition, Armare leverages advanced tools to measure and communicate environmental performance, reflecting our leadership in product sustainability and circularity.

Our environmental vision is shared by Emirates Team New Zealand, with whom we have celebrated victories in three recent America's Cup editions, combining innovation, performance and sustainability at the highest level of competitive sailing.
Since our foundation, we have embraced a philosophy of respect for our territory, protecting the environment through careful material choices, internal processes, and eco-friendly practices. Today, our production chain achieves a recycling rate above 96%, confirming our commitment to a greener future.

Full Supply Chain Control
→ Reducing transportation emissions.

Built to Last
→ Durable products minimizing replacements and waste.

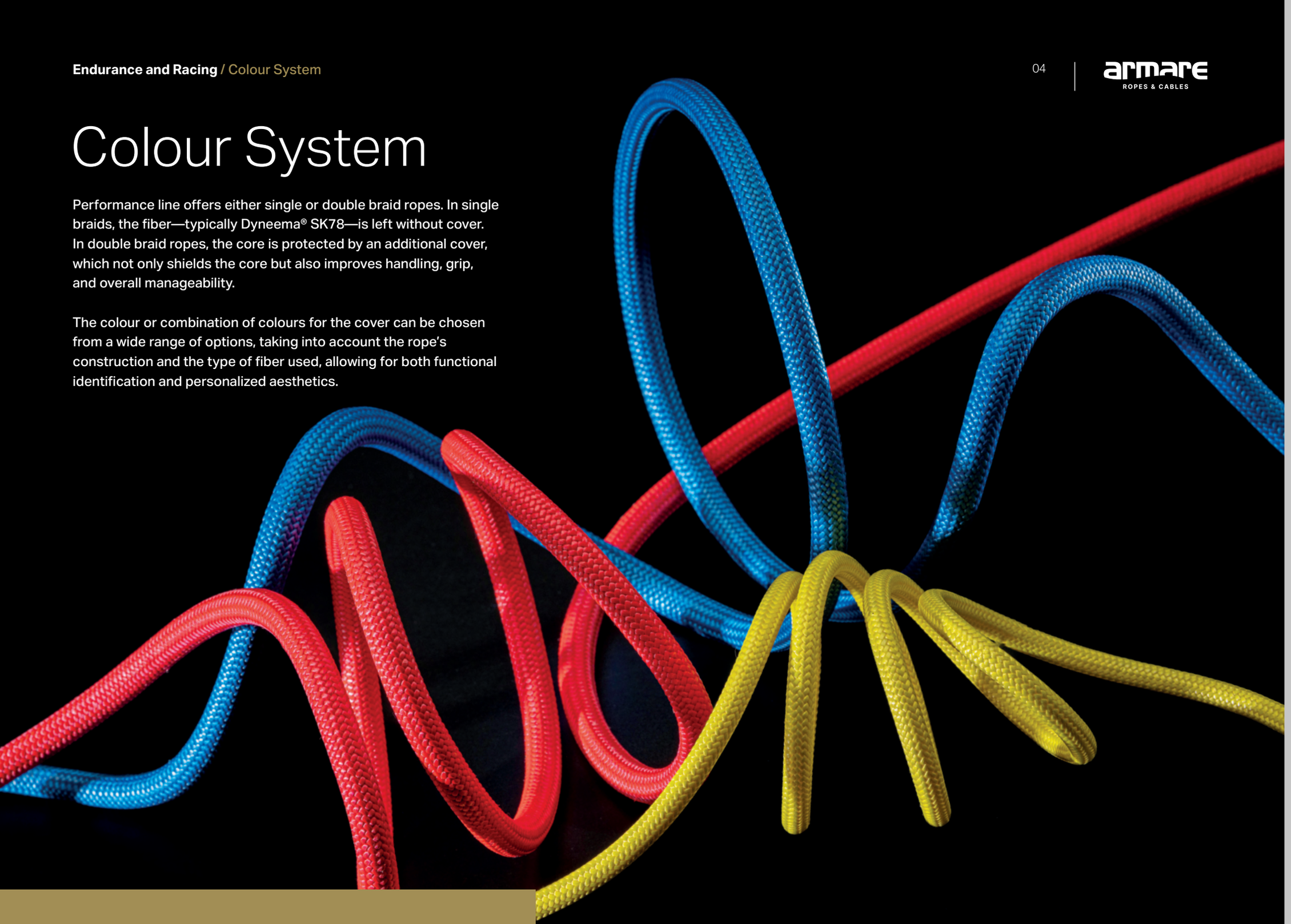
Responsible Materials
→ Use of eco-friendly fibers and recyclable packaging.

Eco-Conscious Production
→ Energy-efficient machinery, waste-reduction initiatives.

Colour System

Performance line offers either single or double braid ropes. In single braids, the fiber—typically Dyneema® SK78—is left without cover. In double braid ropes, the core is protected by an additional cover, which not only shields the core but also improves handling, grip, and overall manageability.

The colour or combination of colours for the cover can be chosen from a wide range of options, taking into account the rope's construction and the type of fiber used, allowing for both functional identification and personalized aesthetics.



Technical fibers colours

Technical fibers have their own predefined natural colour and it can't be changed

Dyneema®

Vectran®

Kevlar®

Gold Technora®

PBO-Zylon®

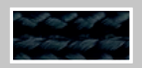
Black Technora®

Cordura®

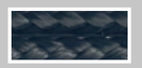
Polyester colours

The color of the Polyester fiber can be customized by choosing from the following available colours

01 White

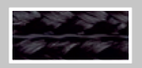


02 Black

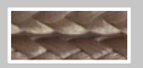


03 Anthracite

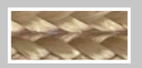
04 Silver Grey



05 Brown



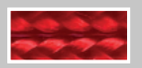
06 Hemp



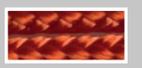
07 Beige

08 Yellow

09 Fluo Yellow

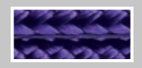


10 Red

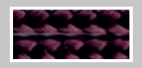


11 Orange

12 Fluo Orange



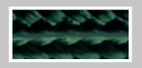
13 Violet



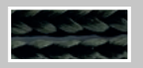
14 Bordeaux

15 Green

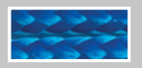
16 Fluo Green



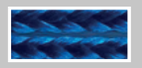
17 English Green



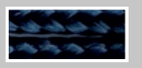
18 Military Green



19 Azure



20 Sea Blue



21 Navy Blue

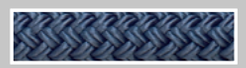
22 Pink

24 Japan Orange

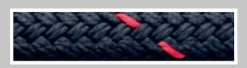
30 Emerald Green

Constructive mix

Double braided ropes can be made with different colour compositions. Thanks to the exclusive Armare Colour System, the construction and the colour of the ropes can be customized. The dope dyed Polyester guarantees light fastness and a good resistance to atmospheric agents.



SOLID COVER
Cover in a solid colour of your choiche.



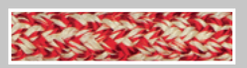
FLECK 1 *
The base of the cover is entirely manufactured in solid color with one colored fleck. Choose the color for the base as well as the color for the fleck.

MARKER *
Solid colour cover with coloured markers. Choose the colour for the cover as well as the quantity and the colour for the markers.

STRIPES
Longitudinal stripes of two different colours of your choice.

MIX
The cover is made of two different but paired colours.

SNAKE
The cover is made of two different colours to obtain a snake pattern.



MELANGE
The cover is composed by different colours wich have been coupled previously.

* Fleck and Markes can also be inserted on Melange covers in order to better differentiate the different maneuvers.

Handcraft Finishes

Every rope can be tailored with splices, protections, thimbles and special terminations, crafted by skilled riggers in our workshop or on board, ensuring top technical and aesthetic quality.

Splices, lashings and taperings

Depending on the intended use—whether on board, for sailmakers, in industrial applications or for safety purposes—ropes often require splicing or special finishes. Armare provides these custom solutions with maximum precision, ensuring excellent durability, functionality and appearance.

Each rope construction requires a specific splicing method to minimize strength loss. A correctly executed splice retains 80–90% of the rope's original strength, while a poor splice—or a simple knot—can reduce it by over 50%. Professional splicing is therefore essential to ensure rope safety and performance.

Main advantages of a correct splicing

→ Retain up to 90% of the rope's original load performance
→ Ready-to-use ropes, immediately functional
→ Pre-settled ropes for long-term performance with no slack
→ Fibers aligned and stabilized under traction during splicing

Available Splices

Single Braid

Eye splice single braid
Code L01

Eye splice on stainless thimble
single braid / **Code L04**

Splice on lash bobbin single braid
Code L09

Double Braid

Eye splice without cover double braid
Code L02

Eye splice without cover on stainless thimble
double braid / **Code L05**

Eye Splice without cover on lash bobbin
double braid / **Code L10**

Eye splice with cover double braid
Code L03

Eye splice with cover on stainless thimble
double braid / **Code L06**

Eye Splice with cover on lash bobbin
double braid / **Code L11**

Available Finishes

Tapering on double braid
Code L07

Halyard spliced loop for mousing line
Code L14

Whipping on rope end
Code L16

Dyneema® TIP on double braid
Code L08

Sewn loop end and protection cover
Code L34

Sewed eye by sewing machine
Code L26

Fibers

Performance starts from the core
In rope construction, the core dictates mechanical performance: strength, stretch, creep resistance and durability depend on fiber choice. Selecting the right material is vital for safety, handling and efficiency.

Conventional and technical fibers
The most common fibers in rope making are Polyester (PET) and Polyamide (PA), valued for cost and versatility. From these, technical fibers are derived: Vectran® (LCP) from polyester, Kevlar®, Twaron® and Technora® from polyamide. These aramid and liquid-crystal polymers provide higher modulus, lower stretch and greater heat resistance than conventional fibers.

High-performance fibers
High-performance fibers differ in chemistry and properties. This group includes HMPE (Dyneema®, Spectra®) and PBO (Zylon®), offering the highest strength-to-weight ratios and minimal stretch. Advanced HMPE grades (SK75, SK78, SK99, DM20) deliver tailored performance, from halyards to standing rigging, while DM20 ensuring near-zero creep under constant load.

Technical Fibers - General Overview

SK75

Dyneema® SK75
The first-generation HMPE fiber that revolutionized rope technology. Very high strength-to-weight and low elongation, it is still a reliable and cost-effective choice for halyards, sheets, and general rigging.

Key points
- Moderate creep resistance
- Very low elongation
- Excellent UV resistance
- Best for halyards, sheets, rigging

SK99

Dyneema® SK99
The ultimate Dyneema® grade with the highest modulus and strength-to-weight ratio. Designed for professional racing, it ensures ultra-low stretch and maximum precision in halyards and control lines.

Key points
- Ultra-high strength & modulus
- Extremely low elongation
- Excellent UV resistance
- Top performance within Dyneema® family

SK78

Dyneema® SK78
Optimized HMPE fiber with reduced creep and excellent UV resistance. It delivers stable and durable performance in halyards, sheets and running rigging, becoming the industry's most widely adopted solution.

Key points
- Very high strength-to-weight
- Low creep, very low elongation
- Excellent UV & abrasion resistance

DM20

Dyneema® DM20
Engineered for permanent dimensional stability. Ideal for standing rigging and lashings, it guarantees long-term reliability even under constant heavy loads.

Key points
- Ultra-low creep
- Very high strength-to-weight
- Excellent UV & saltwater resistance
- Perfect for static/semi-static applications

PBO

PBO-Zylon®

Advanced fiber with unmatched modulus, stiffness, and heat resistance. Extremely powerful but UV- and moisture-sensitive, it is reserved for high-level racing rigging, standing rigging, professional racing setup.

Key points
- Exceptional strength & stiffness
- Very high heat resistance
- Sensitive to UV and moisture
- Ultimate modulus, peak performance

TECHNORA

Technora®

A para-aramid fiber with superior flex-fatigue and abrasion resistance. Combines high strength, excellent thermal stability, and better UV durability than Kevlar®, ideal for high-load rigging and lashings.

Key points
- High strength, flex-fatigue resistance
- Very high heat and friction resistance
- Better UV stability than Kevlar
- Durable under cyclic loads

HMPE

HMPE

HMPE offers a reliable balance of strength, durability, and affordability. With very high strength-to-weight and low stretch, it is perfect for general-purpose halyards, sheets, running rigging.

Key points
- Very high strength-to-weight
- Moderate creep resistance
- Very low elongation
- Excellent UV resistance

KEVLAR

Kevlar® / Twaron®

Aramid fibers with high tensile strength, very low elongation and excellent heat resistance. Proven materials for standing rigging and control lines, though requiring protection from UV exposure.

Key points
- High tensile strength, very low elongation
- Excellent heat resistance
- Limited UV durability
- Best for standing rigging, control lines

VECTRAN

Vectran®

A liquid crystal polymer fiber with exceptional creep resistance and high heat tolerance. Stable and reliable under long-term heavy loads, best for halyards and lashings when properly UV-protected.

Key points
- High strength, very low elongation
- Excellent creep resistance
- Very high heat resistance
- Sensitive to UV (needs protection)

POLYESTER

Polyester

Polyester remains the most versatile and cost-effective fiber for ropes, providing good UV and abrasion resistance along with moderate stretch. It is widely used for cruising and multipurpose lines.

Key points
- Affordable & versatile
- Good UV and abrasion resistance
- Medium stretch (shock absorption)
- Cost-effective choice for cruising

Stretch and Creep

In modern sailing ropes, two fundamental parameters define performance: stretch and creep. Both terms describe elongation under load, but they represent very different phenomena.

Stretch is reversible: once the load is released, the rope returns to its original length.
Creep is irreversible: the rope permanently increases in length when subjected to constant load over time.

Understanding these differences is essential in selecting the right rope for each application, ensuring consistent sail trim, reliability, and long-term safety on board.

Stretch

Stretch is the elastic elongation of a fiber under tension. Unlike creep, it is reversible: the rope returns to its initial length once the load is released. Stretch is determined by the fiber's modulus, i.e. its ability to resist deformation. The higher the modulus, the lower the elongation and the more stable the rope under dynamic loads.

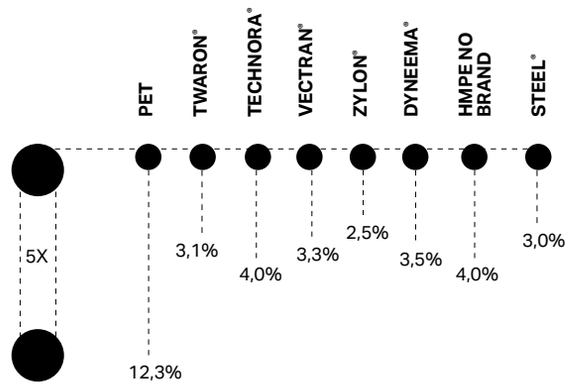
Creep

Creep is the permanent elongation of a fiber when exposed to a constant load for a prolonged period. This process, also called plastic deformation, depends on the applied load, the duration of exposure, and the operating temperature. Higher loads and elevated temperatures accelerate creep, which cannot be recovered once it has occurred.

Low stretch ropes

Low stretch ropes are critical in sailing, especially for halyards and sheets. Excessive elongation alters the sail's aerodynamic profile, reducing power and acceleration. Elastic ropes also absorb part of the wind energy, forcing continuous trim corrections. By contrast, low stretch lines preserve sail shape and maximize efficiency, particularly in gusty conditions.

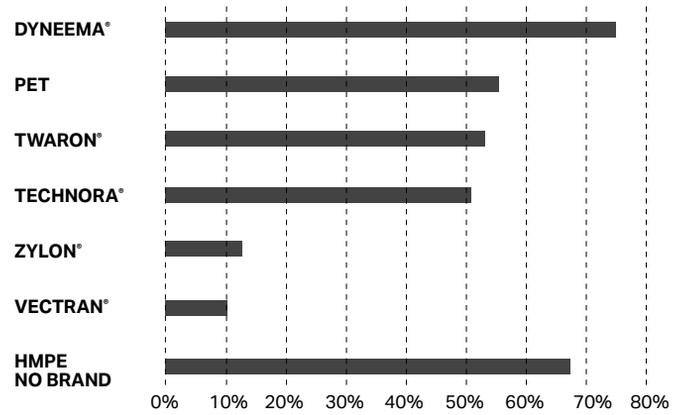
TECHNICAL FIBERS: ELONGATION AT BREAK



Synthetic fibers tested in accordance with ISO 2062

RESIDUAL STRENGTH OF TECHNICAL FIBERS

% of original tenacity after 336 hours of exposure to atmospheric agents



Simulation of aging according to standard ASTM G-155
Synthetic fibers tested in accordance with ISO 2062

Fibers Comparative Table

Fiber	Material	Tenacity	Elongation	Modulus	Specific Gravity	Atm. Agents Resistance	Abrasion Resistance	Melting Point
		[cN/dTex]	[%]	[GPa]	[Kg/dm3]	[Score]	[Score]	[°C]
Dyneema® SK75	UHMW-PE	35,1	3,5	116	0,975	Excellent	Very Good	147
Dyneema® SK78	UHMW-PE	35,1	3,4	120	0,975	Excellent	Very Good	147
Dyneema® SK99	UHMW-PE	42,5	3,2	140	0,975	Excellent	Very Good	147
Dyneema® DM20	UHMW-PE	34,0	3,6	110	0,975	Excellent	Very Good	147
Zylon®	PBO	37,9	2,5	270	1,56	Very Poor	Little	660
Kevlar/Twaron®	ARAMID	20,8	2,4	130	1,44	Little	Poor	430
Technora® (*)	ARAMID	22,3	4,0	90	1,39	Moderate	Moderate	500
Vectran®	LCP	24,2	3,3	85	1,41	Poor	Little	330
HMPE (no brand)	HMPE	29,0	4,0	105	0,97	Excellent	Good	144
Polyester	PET	7,60	12,3	15	1,38	Good	Very Good	260

Note on Black Technora
(*) In this table it is considered the Black Technora® version (pigmented and treated with UV stabilizers) that slow down the degradation of the polymer chain.

UHMW-PE = Ultra High Molecular Weight Polyethylene
Precise chemical definition of the material; it represents a particularly crystalline and molecularly oriented form of this polymer, which provides high toughness, low specific weight, and exceptional resistance to abrasion and chemical agents.

HMPE = High Modulus Polyethylene
Generic term used to indicate high-modulus polyethylene, with good load-bearing capacity and elongation properties.

Special treatments

Different special treatments may be applied to the braided cores and to the technical fibers to enhance their characteristics in terms of elongation, creep and resistance, to obtain even better performance.

HPS TREATMENT

HPS Treatment

A Dyneema® braid impregnated with Polyurethane Coating gains remarkable advantages in terms of compactness, reduction of compression under load and, consequently, improved roundness and consistency of the rope. This protective coating becomes even more important when the ropes have to be worked, carefully spliced, and/or when the cover has to be removed, since the polyurethane keeps the Dyneema® fibers firmly linked together. As a result, the overall quality of the product is further improved, particularly in terms of durability, resistance to wear over time, and increased protection against abrasion in challenging conditions.

Main advantages

→ Increased specific modulus
→ Decreased constructive elongation
→ Increased breaking load
→ Higher compactness
→ Decrease in diameter
→ Decrease in flexibility

Single braid Dyneema® without HPS treatment: the braid is soft and "airy".

PU COATED TREATMENT

PU Coating Treatment

A Dyneema® braid impregnated with Polyurethane Coating gains remarkable advantages in terms of compactness, reduction of compression under load and, as a result, improved roundness and stability of the rope. This specialized coating becomes even more important when the ropes need to be worked, spliced, or when the protective cover has to be removed, as the polyurethane keeps the Dyneema® fibers securely linked together. In this way, the overall quality of the product is significantly enhanced, especially in terms of long-term durability, resistance to wear, and superior protection against abrasion in demanding conditions.

Main advantages

→ Increased compactness of the braid
→ Reduced compression under load
→ Improved roundness of the rope
→ Easier handling and splicing
→ Enhanced durability of the product
→ Higher abrasion resistance

The braid after the HPS treatment: the fibers are oriented and the rope is more rigid and compact.

Coloring of Dyneema® ropes

In high-performance ropes, the coloring method of Dyneema® fibers directly affects both aesthetics and technical behavior. Two main processes are employed: dope-dyeing during extrusion and surface impregnation with protective treatments.

Dope-dyed Dyneema® integrates pigment directly into the fiber during extrusion, creating a uniform, deep black coloration throughout the filament. This ensures maximum resistance to UV degradation and color stability over time. The process may slightly reduce ultimate breaking load but delivers the most durable coloring solution.

Impregnation treatments (e.g. "Shield") apply pigment externally on the individual strands. Although less durable against light exposure, this method does not alter the molecular structure of Dyneema® and thus preserves fiber strength. In addition, it reduces internal "yarn-to-yarn friction", improving rope longevity under cyclic loading.

PURE BLACK

Pure Black Dyneema®
Dope-Dyed process
With the dope-dyed process, the pigment is integrated directly into the fiber during extrusion, ensuring that the color penetrates the entire filament. When cut, the section reveals a uniform black coloration throughout, not just on the surface. This method provides the highest protection against UV degradation and guarantees long-lasting stability of the black tone. Thanks to the introduction of Dyneema® BK (BLACK), Armare Ropes can now produce ropes entirely in Dyneema® with a deep, durable black finish, combining color permanence with the intrinsic performance and resistance of the fiber.

SHIELD TREATMENT

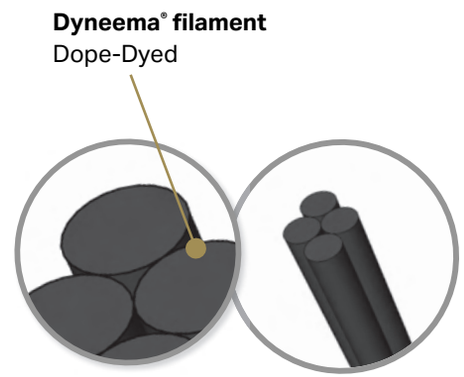
Shield Treatment
The basic fiber is impregnated with a coating that dyes it only externally I.e.: when slicing it, the inner side is white while the external surface is pigmented.

This treatment, introduced by Armare, the perfect distribution of the coating over the entire surface of the fiber, enhancing the quality of the finished product, both from a technical and aesthetical point of view. The "shield" increases rope compactness and abrasion resistance, significantly enhancing durability in demanding marine use.

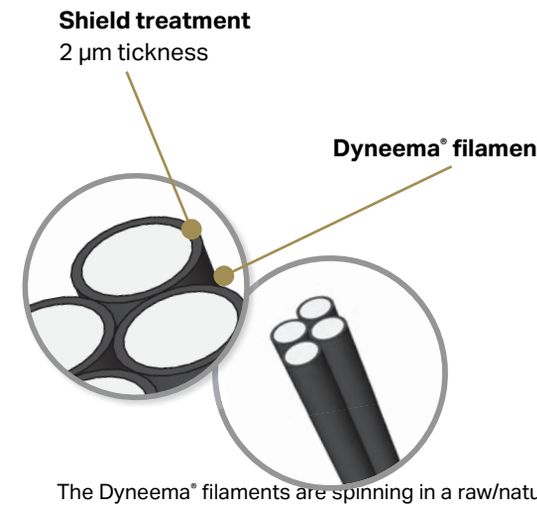
Key Facts – Coloring Treatments

Dope-Dyed (Dyneema® BK)
- Pigment integrated into the fiber during extrusion
- Maximum UV and color stability
- Slight reduction in breaking load

Impregnation / Shield
- Pigment applied on fiber surface
- Moderate UV/color durability
- No loss in strength, reduced yarn-to-yarn friction



The Dyneema® filaments are fully impregnated with pigment during the spinning (Dope-Dyed) and the result is a solid colour that is the same in and outside the base filament.



The Dyneema® filaments are spinning in a raw/natural colour and in a second phase they are coated with a special coating blend PU based.

Endurance line

Products result of several tests and feedback received from the best riggers, shore-teams and crews of the most prestigious racing boats worldwide.

Single Braid

PBO TW (PBO-Zylon® + PU)
Tecforce (Black Technora® + PU)
Dyneforce Pure Black (Dyneema® SK75 Pure Black + HPS + PU)
Superound Pure Black (Dyneema® SK75 Pure Black + PU)

Single Braid + Shield

Dyneforce DM20 Shield (Dyneema® DM20 + HPS + Shield)
Dyneforce 99 Shield (Dyneema® SK99 + HPS + Shield)
Dyneforce 78 Shield (Dyneema® SK78 + HPS + Shield)
Superound 78 Shield (Dyneema® SK78 + Shield)

Cores

Dyneema® DM20 (Dyneema® DM20 + HPS + Shield)
Dyneema® SK99 (Dyneema® SK99 + HPS + Shield)
Dyneema® SK78 (Dyneema® SK78 + HPS + Shield)
Dyneema® DM20 (Dyneema® DM20 + HPS + Shield)

Covers

PBO-Zylon®
PBO-Zylon® - Black Dyneema®
PBO-Zylon® - Black Technora®
PBO-Zylon® - Black Technora® - Black Dyneema®
Black Technora® - Black Dyneema®
Black Technora® - Black Dyneema® - Polyester

SINGLE BRAID

SINGLE BRAID - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	PBO TW SINGLE BRAID		TECFORCE SINGLE BRAID		DYNEFORCE PURE BLACK SINGLE BRAID		SUPEROUNDPURE BLACK SINGLE BRAID	
	NA56C00		TA52C00		NA77C00_CDY		NA67C00_CDY	
DIAMETER	B. L.	WEIGHT	B. L.	WEIGHT	B. L.	WEIGHT	B. L.	WEIGHT
[mm]	[daN]	[g /m]	[daN]	[g /m]	[daN]	[g /m]	[daN]	[g /m]
3	1.260	6,50	-	-	1.068	6,80	730	5,00
3,5	1.680	8,80	-	-	1.400	8,20	1.100	7,50
4	2.220	13,00	1.880	12,00	2.250	10,10	1.530	9,80
5	3.500	20,00	2.650	18,00	2.980	15,30	2.300	14,40
6	4.750	27,00	3.170	25,00	5.000	24,00	3.230	20,00
7	6.600	37,00	4.750	27,90	6.400	31,10	4.560	27,00
8	8.640	52,00	6.336	45,00	8.200	38,20	6.100	35,00
9	10.500	61,00	7.168	60,00	9.500	51,10	7.270	46,00
10	12.830	78,00	8.000	74,00	11.600	60,00	9.000	57,00
11	14.420	92,00	10.000	80,00	13.100	77,00	10.200	61,00
12	17.100	110,00	12.000	85,00	16.000	94,00	12.000	68,00
13	19.000	125,00	-	-	17.780	110,00	13.250	73,00
14	21.000	140,00	16.850	107,00	20.000	128,00	14.500	78,00
15	23.400	157,00	-	-	-	-	-	-

NOTE ABOUT BREAKING LOAD AND DIAMETERS The average values shown above are derived from tests taken at Armare laboratory, on properly spliced new ropes, and may change without notice. Other diameters available on request. The static load of the rope must not exceed 20% of breaking load shown in the table. Knots may affect the breaking load of the rope with reductions of up to 60%. The splicing increases the diameter of the rope of about 1.5 times. The use and exposure to weather conditions, depending from the kind of rope and the time of exposure, can reduce the breaking loads of the ropes.

SINGLE BRAID

PBO TW

(PBO-Zylon® + PU)

Designed to equip the best sail boats, PBO-Zylon® guarantees the lowest elongation, a high breaking load, elevated mechanical resistance and optimal flexibility. Moreover, the high shape stability on winches and stoppers, the lightweight and its good handling make this rope the excellent partner of the most demanding crews.

100% PBO · PU COATED TREATMENT

PRODUCT CODE NA56C00

CONSTRUCTION
12 plait with PBO-Zylon® impregnated with polyurethane coating.

USE Ideal for strops, tackles and underdeck low elongation manoeuvres, or used inside machines or covered by carters which protect from the UV exposure.

STANDARD DIAMETERS
From 3 to 15 mm. Other diameters on request.

STRETCH AT 30% B. L. 1,80%
STRETCH AT B. L. 2,85%

COLOURS Black

Black

SINGLE BRAID

Tecforce

(Black Technora® + PU)

Particularities of this aramid fiber are its good resistance to UV rays and to bending if compared to other standard aramid fibers; these properties allow to obtain long lasting ropes with a good breaking load and a low elongation. A very oriented molecular structure guarantees a high modulus with a low creep. Tecforce is therefore mainly used for bindings, reinforcements as well as for all those applications where an important breaking load but also a high resistance to abrasion and elongation are required.

100% TECHNORA · PU COATED TREATMENT

PRODUCT CODE TA52C00

CONSTRUCTION
12 plait with Black Technora® 100% impregnated with polyurethane coating.

USE Ideal for tackles and for bindings where high abrasion and UV resistance are required.

STANDARD DIAMETERS
From 4 to 14 mm. Other diameters on request.

STRETCH AT 30% B. L. 2,95%
STRETCH AT B. L.: 4,45%

COLOURS Black

Black

SINGLE BRAID

Dyneforce Pure Black

(Dyneema® SK75 Pure Black + HPS + PU)

The renewed version of this specific item, made with Dyneema® BK75, named by us Dyneema® Pure Black maintains its basic features and on top of that the fiber is dope-dyed. The result is a long-lasting colour that doesn't fade over time, while excellent technical performances are guaranteed by the durability of the Dyneema® SK75 version.

100% SK75 · HPS TREATMENT · PU COATED TREATMENT · PURE BLACK

PRODUCT CODE NA77C00_CDY

CONSTRUCTION
12 plait with Dyneema® SK75 Pure Black impregnated with polyurethane coating and special heat treatment HPS.

USE All use as a standard Single Braid in Dyneema® but with a structural solid colour.

STANDARD DIAMETERS
From 3 to 14 mm. Other diameters on request.

STRETCH AT 30% B. L. 2,16%
STRETCH AT B. L. 3,20%

COLOURS Pure Black

Pure Black

SINGLE BRAID

Superound Pure Black

(Dyneema® SK75 Pure Black + PU)

The renewed version of this specific item, made with Dyneema® SK75 BK (or Dyneema® Pure Black) maintains its basic features and on top of that the fiber is dope-dyed (see explanation at page 20). The result is a long-lasting colour that doesn't fade over time, while excellent technical performances are guaranteed.

100% SK75 · PU COATED TREATMENT · PURE BLACK

PRODUCT CODE NA67C00_CDY

CONSTRUCTION
12 plait with Dyneema® SK75 Pure Black impregnated with polyurethane coating.

USE All use as a standard Single Braid in Dyneema® but with a structural solid colour.

STANDARD DIAMETERS
From 3 to 14 mm. Other diameters on request.

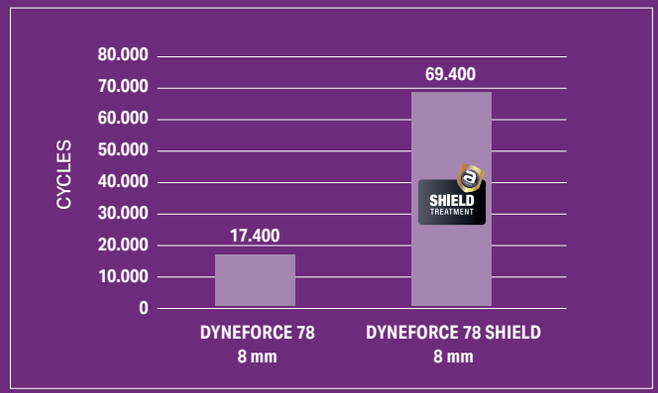
STRETCH AT 30% B. L. 2,60%
STRETCH AT B. L. 3,60%

COLOURS Pure Black

Pure Black

Dyneforce Shield vs Standard

BENDING FATIGUE TEST COMPARISON
DYNEFORCE SK78 VS DYNEFORCE SK78 SHIELD



Tests performed in-house on two items having equal diameters and identical constructions have proved that the "Shield" treatment guarantees high resistance to bending, high breaking load, high modulus, low creep, high resistance to UV rays and very low specific weight.

SINGLE BRAID + SHIELD

SINGLE BRAID + SHIELD - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	DYNEFORCE DM20 SHIELD SINGLE BRAID		DYNEFORCE 99 SHIELD SINGLE BRAID		DYNEFORCE 78 SHIELD SINGLE BRAID		SUPEROUND 78 SHIELD SINGLE BRAID	
	NA25S_C00		NA20S_C00		NA58S_C00		NA17S_C00	
DIAMETER	B. L.	WEIGHT	B. L.	WEIGHT	B. L.	WEIGHT	B. L.	WEIGHT
[mm]	[daN]	[g /m]	[daN]	[g /m]	[daN]	[g /m]	[daN]	[g /m]
3	**1.297**	4,90	**1.516**	6,08	**1.455**	4,95	**966**	5,05
3,5	**1.465**	7,12	**2.310**	9,73	**1.724**	8,28	**1.071**	7,58
4	**2.008**	9,28	**2.940**	11,31	**2.363**	10,20	**1.680**	9,90
5	**2.755**	14,06	**4.496**	18,23	**3.241**	15,45	**2.940**	15,10
6	**5.245**	24,24	**6.510**	23,09	**5.245**	24,24	**4.305**	20,20
7	**5.712**	27,90	**8.484**	27,78	**6.720**	31,41	**6.405**	27,27
8	**6.605**	35,86	**10.328**	39,19	**7.770**	38,59	**7.508**	35,35
9	**8.672**	42,95	**13.068**	48,62	**10.202**	51,62	**8.505**	46,46
10	**10.353**	50,00	**15.414**	59,39	**12.180**	60,61	**10.710**	57,58
11	**11.692**	62,50	**17.320**	62,63	**13.755**	77,78	**12.705**	61,62
12	**14.280**	75,80	**19.131**	77,78	**16.800**	94,95	**15.960**	68,69
13	**15.869**	100,60	**23.286**	96,18	**18.669**	111,11	**17.535**	73,74
14	**17.850**	106,30	**27.384**	111,11	**21.000**	129,29	**18.743**	78,79
15	**20.528**	112,80	**31.500**	130,30	**24.150**	145,45	**21.525**	90,91
16	**23.473**	119,25	**38.850**	146,46	**27.615**	161,62	**23.100**	103,03
17	**25.883**	139,70	**41.937**	164,20	**30.450**	181,87	**24.780**	115,20
18	**28.025**	160,10	**44.835**	181,82	**32.970**	202,02	**26.250**	127,27
19	**29.988**	185,10	**48.195**	199,60	**35.970**	227,09	**27.878**	144,64
20	**33.023**	210,00	**51.975**	218,00	**38.850**	252,00	**30.135**	162,00

NOTE ABOUT BREAKING LOAD AND DIAMETERS The average values shown above are derived from tests taken at Armare laboratory, on properly spliced new ropes, and may change without notice. Other diameters available on request. The static load of the rope must not exceed 20% of breaking load shown in the table. Knots may affect the breaking load of the rope with reductions of up to 60%. The splicing increases the diameter of the rope of about 1.5 times. The use and exposure to weather conditions, depending from the kind of rope and the time of exposure, can reduce the breaking loads of the ropes.

SINGLE BRAID + SHIELD

DYNEFORCE DM20 SHIELD

(Dyneema® DM20 + HPS + SHIELD)

Dyneema® DM20 has been created to satisfy specific marine/industrial needs. Compared to other types of Dyneema®, it shows better performance in terms of durability over time as well as a close to zero creep. Its very stable construction allows Armare to produce a rope that is suitable for all those applications where a constant load and a continued use would put to the test any other type of Dyneema®. Furthermore, the Shield treatment increases the compactness and the abrasion resistance of this rope.

100% DM20 · HPS TREATMENT · SHIELD TREATMENT

PRODUCT CODE NA25S_C00

CONSTRUCTION
12 plait with Dyneema® DM20 impregnated with SHIELD coating and special heat treatment HPS.

USE It is the ultimate solution for strops, shrounds, backstays and halyards on hydraulic cylinder but also for stable and long-lasting bindings.

STANDARD DIAMETERS
From 3 to 20 mm

STRETCH AT 30% B. L. 2,16%
STRETCH AT B. L. 3,20%

COLOURS Silver Gray

Silver Grey

SINGLE BRAID + SHIELD

DYNEFORCE 99 SHIELD

(Dyneema® SK99+ HPS + SHIELD)

The highest tenacity available in a light weight polymer fiber. Compared to Dyneema® SK78, it shows a 20% increase on tenacity and a 35% higher modulus. Dyneema® SK99 appears thinner and lighter respect to ropes with the same diameter, but with a significant increase in strength, which entails an increase on performance. Moreover, thanks to the Shield treatment, the ropes results more compact and resistant to abrasion. Other features: low water absorption, high UV resistance, minimal elongation and good flexibility.

100% SK99 · HPS TREATMENT · SHIELD TREATMENT

PRODUCT CODE NA20S_C00

CONSTRUCTION
12 plait with Dyneema® SK99 impregnated with SHIELD coating and special heat treatment HPS.

USE Tackles, backstays, runners, baby stays, halyards on hydraulic cylinders, strops and loops, bindings where high B.L. low elongation and minimal space are required.

STANDARD DIAMETERS
From 3 to 20 mm

STRETCH AT 30% B. L. 1,65%
STRETCH AT B. L. 2,80%

COLOURS Black, Silver Grey

Black Silver Grey

SINGLE BRAID + SHIELD

DYNEFORCE 78 SHIELD

(Dyneema® SK78 + HPS + SHIELD)

Dyneema® SK78 is characterized by a remarkable stability under constant loads and provides the following features: low creep and elongation, elevated breaking load, light weight, low level of water absorption, high resistance to UV rays, great flexibility. Furthermore, the Shield treatment increases the compactness and the abrasion resistance of this rope. The ropes made with this core are destined to extreme performances, especially during highly demanding regattas when the permanent load is continuously present.

100% SK78 · HPS TREATMENT · SHIELD TREATMENT

PRODUCT CODE NA58S_C00

CONSTRUCTION
12 plait with Dyneema® SK78 impregnated with SHIELD coating and special heat treatment HPS.

USE Ideal for tackles, backstays, runners, baby stays, control lines, strops and loops; moreover for bindings where a good breaking load and a low elongation are required.

STANDARD DIAMETERS
From 3 to 20 mm

STRETCH AT 30% B. L. 2,10%
STRETCH AT B. L. 3,15%

COLOURS Black, Silver Grey

Black Silver Grey

SINGLE BRAID + SHIELD

SUPEROUND 78 SHIELD

(Dyneema® SK78 + SHIELD)

This Line differs from Dyneema® SK78 + HPS + SHIELD in the lack of the HPS treatment. This makes the rope more manageable, as the core is more supple. It has a slightly different breaking load and elongation in comparison with DYN 78 + HPS + SHIELD, because the braid is not settled (it means that the differences of tensions between fibers are not adjusted). However, its general features remain at a high level, making this rope affordable to boats and crews of a less extreme technical level.

100% SK78 · SHIELD TREATMENT

PRODUCT CODE NA17S_C00

CONSTRUCTION
12 plait with Dyneema® SK78 impregnated with SHIELD coating.

USE Ideal for bindings,
leading blocks, control lines and tackles.

STANDARD DIAMETERS
From 3 to 20 mm

STRETCH AT 30% B. L. 2,55%
STRETCH AT B. L. 3,55%

COLOURS Black, Silver Grey

Black Silver Grey

COVER

PBO ZYLON®

PBO (C56)

DESCRIPTION AND USE

Unbeatable resistance to abrasion and heat. Thanks to its properties, it is the best choice among the range of technical ropes in the applications where high temperatures and elevated loads are constantly present. This cover is especially used for runner tackles, high friction/load sheets and also for hi-loads takles.

COVER

PBO ZYLON® / BLACK DYNEEMA®

PBO / CDYN (C56_CDY)

DESCRIPTION AND USE

Recommended for manoeuvres where it make sense to reduce the high grip of PBO-Zylon® by mixing it with Dyneema®. This cover has a better fluidity, especially while slacking, maintains a good resistance to high temperatures and it is suitable for jib sheets and running backstay on extreme performance boats.

COVER

PBO ZYLON® / BLACK TECHNORA®

PBO / BTEC (C74)

DESCRIPTION AND USE

First rate resistance to abrasion and high temperature Thanks to the balance of two excellent fibers its properties are perfect for the intensive uses onboard of the competitive racing yachts.

DM20 + HPS + SHIELD - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	ALL COVERS	PBO	PBO/ CDYN	PBO/ BTEC	PBO/BTEC/ CDYN	BTEC/CDYN	BTEC/CDYN /PET
	NA25S	C56	C56_CDY	C74	C75_CDY	C35_CDY	C85_CDY
DIAM	B. L.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
[mm]	[daN]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]
4	848	13,72	12,70	12,80	12,70	12,52	12,30
5	1.237	21,28	19,60	19,80	19,60	19,19	19,00
6	2.008	29,05	26,80	27,00	26,80	26,50	26,16
7	2.382	42,44	39,10	39,50	39,10	38,22	38,22
8	2.755	55,62	51,30	51,80	51,30	50,80	50,08
9	4.458	67,55	61,80	62,40	61,80	61,30	60,37
10	5.087	79,38	73,10	73,80	73,10	72,50	71,34
11	6.158	97,20	89,60	90,50	89,60	88,80	87,51
12	7.631	112,86	104,00	105,00	104,00	103,10	101,53
13	8.672	132,18	121,77	123,00	121,77	121,00	119,00
14	9.014	151,85	139,90	141,20	139,90	138,70	136,51
15	10.353	176,53	162,65	164,20	162,65	161,25	158,76
16	11.692	201,20	185,40	187,20	185,40	183,80	181,00
17	12.941	219,12	202,00	203,92	202,00	200,20	197,80
18	14.280	236,95	218,40	220,50	218,40	216,50	213,15
19	15.869	265,78	245,70	248,64	245,60	243,55	239,81
20	17.850	294,60	273,00	276,77	272,80	270,60	266,46

SK99 + HPS + SHIELD - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	ALL COVERS	PBO	PBO/ CDYN	PBO/BTEC	PBO/BTEC/ CDYN	BTEC/CDYN	BTEC/CDYN/ PET
	NA20S	C56	C56_CDY	C74	C75_CDY	C35_CDY	C85_CDY
DIAM	B. L.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
[mm]	[daN]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]
4	1.516	13,82	12,83	12,93	12,42	12,55	12,42
5	2.310	21,49	19,80	20,00	19,19	19,38	19,19
6	2.940	29,34	27,07	27,27	26,23	26,77	26,23
7	3.675	42,87	39,49	39,90	38,60	39,19	38,60
8	4.496	56,18	51,81	52,32	50,58	51,31	50,58
9	6.510	67,74	62,42	63,02	60,97	61,91	60,97
10	7.508	80,17	73,83	74,54	72,05	73,23	72,05
11	9.398	98,17	90,50	91,41	88,39	89,69	88,39
12	10.328	113,99	105,04	106,05	102,55	104,13	102,55
13	10.710	133,68	123,17	124,33	120,38	122,11	120,38
14	13.068	153,37	141,30	142,61	138,21	140,09	138,21
15	15.141	178,29	164,28	165,84	160,51	162,86	160,51
16	16.328	203,22	187,25	189,07	182,81	185,64	182,81
17	17.320	221,27	203,98	205,97	199,51	202,20	199,51
18	19.131	239,22	220,58	222,71	215,28	218,67	215,28
19	23.286	268,50	248,16	249,46	244,47	246,00	242,25
20	27.384	297,00	275,73	276,20	273,66	273,31	269,12

COVER

PBO ZYLON® / BLACK TECHNORA® / BLACK DYNEEMA®

PBO / BTEC / CDYN (C75_CDY)

DESCRIPTION AND USE

Cover extremely resistant to high temperatures and abrasions, suitable for uses with repeated stress over time; the addition of Dyneema® gives the rope a good fluidity and makes it suitable for sheets and tack of ocean boats. If necessary, the addition of a small percentage of polyester allows to diversify the manoeuvres.

COVER

BLACK TECHNORA® / BLACK DYNEEMA®

BTEC / CDYN (C35_CDY)

DESCRIPTION AND USE

This fibewr mix gives durability and performance to the cover. Excellent results in order of smoothness, abrasion resistance and durability have been reached. The presence of Pure Black Dyneema® gives this cover a solid black colour, accordant to the needs of the top racing yachts.

COVER

BLACK TECHNORA® / BLACK DYNEEMA® / PET

BTEC / CDYN / PET (C85_CDY)

DESCRIPTION AND USE

Suitable for many different boats and uses. Excellent resistance to abrasion and to repeated bending. Compared to TEC/DYN covers, it is easier to customize thanks to the presence of Polyester. Furthermore, the use of the Pure Black Dyneema® gives this cover a solid black colour, accordant to the needs of the top racing yachts.

SK78 + HPS + SHIELD - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	ALL COVERS	PBO	PBO/CDYN	PBO/BTEC	PBO/BTEC/ CDYN	BTEC/CDYN	BTEC/CDYN/ PET
	NA58S	C56	C56_CDY	C74	C75_CDY	C35_CDY	C85_CDY
DIAM	B. L.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
[mm]	[daN]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]
4	**998**	13,72	12,70	12,80	12,70	12,52	12,30
5	**1.455**	21,28	19,60	19,80	19,60	19,19	19,00
6	**2.363**	29,05	26,80	27,00	26,80	26,50	26,16
7	**2.802**	42,44	39,10	39,50	39,10	38,22	38,22
8	**3.241**	55,62	51,30	51,80	51,30	50,80	50,08
9	**5.245**	67,60	61,80	62,40	61,80	61,30	60,37
10	**5.985**	79,38	73,10	73,80	73,10	72,50	71,34
11	**7.245**	97,20	89,60	90,50	89,60	88,80	87,51
12	**8.978**	112,86	104,00	105,00	104,00	103,10	101,53
13	**10.202**	132,18	121,77	123,00	121,77	121,00	119,00
14	**10.605**	151,85	139,90	141,20	139,90	138,70	136,51
15	**12.180**	176,53	162,65	164,20	162,65	161,25	158,76
16	**13.755**	201,20	185,40	187,20	185,40	183,80	181,00
17	**15.225**	219,11	202,00	203,90	202,00	200,20	197,80
18	**16.800**	236,95	218,40	220,50	218,40	216,50	213,15
19	**18.669**	265,78	245,70	248,64	245,60	243,55	239,81
20	**21.000**	294,60	273,00	276,77	272,80	270,60	266,46

SK78 + SHIELD - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	ALL COVERS	PBO	PBO/CDYN	PBO/BTEC	PBO/BTEC/ CDYN	BTEC/CDYN	BTEC/CDYN/ PET
	NA17S	C56	C56_CDY	C74	C75_CDY	C35_CDY	C85_CDY
DIAM	B. L.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
[mm]	[daN]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]
4	**735**	13,72	12,70	12,80	12,30	12,52	12,30
5	**998**	21,38	19,70	19,90	19,30	19,29	19,30
6	**1.785**	29,05	26,80	27,00	26,17	26,50	26,17
7	**2.730**	41,93	39,00	39,10	37,80	38,25	37,70
8	**2.940**	54,65	50,40	50,90	49,20	49,90	49,20
9	**4.305**	65,92	60,80	61,40	59,33	60,20	59,30
10	**5.744**	77,11	71,10	71,80	69,38	70,40	69,38
11	**6.405**	93,94	86,60	87,44	84,50	85,75	84,50
12	**6.890**	110,70	102,00	103,00	99,57	101,10	99,57
13	**8.505**	130,15	120,10	121,15	117,10	118,90	117,00
14	**9.608**	149,58	137,80	139,20	134,55	136,60	134,55
15	**11.550**	168,72	155,45	157,00	151,80	154,10	151,80
16	**12.705**	187,81	173,00	174,70	168,95	171,50	168,95
17	**14.312**	213,26	181,30	183,10	177,10	180,00	177,00
18	**15.960**	226,23	189,50	191,40	185,02	187,90	185,02
19	**17.535**	239,20	221,14	223,78	221,00	219,20	215,83
20	**18.743**	265,14	245,70	249,10	245,52	243,54	239,82

Racing line

Armare racing line is dedicated to professional racers and has been designed, manufactured and tested on high performance boats, to meet the specific needs of those who live and/or work at sea. The products are made with two technical fibers that can be eventually completed with different protective covers.

SINGLE BRAID

Dyneema® Single Braid

Dyneforce 99 (Dyneema® SK99 + HPS + PU)
Dyneforce 78 (Dyneema® SK78 + HPS + PU)

DOUBLE BRAID

Cores

Dyneema® SK99 (Dyneema® SK99 + HPS + PU
Dyneema® SK78 (Dyneema® SK78 + HPS + PU)

Covers

PBO-Zylon® - Dyneema®
PBO-Zylon® - Black (or Gold) Technora® - Dyneema®
Black (or Gold) Technora® - Dyneema®
Black Black (or Gold) Technora® - Dyneema® - Polyester
Kevlar® - Dyneema®
Kevlar® - Dyneema® - Polyester

SINGLE BRAID CORES

SINGLE BRAID - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	**DYNEFORCE 99** SINGLE BRAID		**DYNEFORCE 78** SINGLE BRAID	
	NA20C00		NA58C00	
DIAMETER	B. L.	WEIGHT	B. L.	WEIGHT
[mm]	[daN]	[g /m]	[daN]	[g /m]
1	199	0,81	-	-
1,5	450	1,81	708	3,40
2	715	2,41	950	4,50
2,5	1.050	3,61	1.155	5,70
3	1.444	6,02	1.386	6,80
3,5	2.200	9,63	1.642	8,20
4	2.800	11,20	2.250	10,10
5	4.282	18,05	3.087	15,30
6	6.200	22,86	4.995	24,00
7	8.080	27,50	6.400	31,10
8	9.836	36,50	7.400	38,20
9	12.446	48,13	9.716	51,10
10	14.680	58,80	11.600	60,00
11	16.495	62,00	13.100	77,00
12	18.220	77,00	16.000	94,00
13	22.177	95,22	17.000	100,00
14	26.080	110,00	20.000	128,00
15	30.000	129,00	23.000	145,00
16	37.000	145,00	26.300	160,00
17	39.940	162,00	29.000	180,00
18	42.700	180,00	31.400	200,00
20	49.500	216,00	37.000	250,00

NOTE ABOUT BREAKING LOAD AND DIAMETERS The average values shown above are derived from tests taken at Armare laboratory, on properly spliced new ropes, and may change without notice. Other diameters available on request. The static load of the rope must not exceed 20% of breaking load shown in the table. Knots may affect the breaking load of the rope with reductions of up to 60%. The splicing increases the diameter of the rope of about 1.5 times. The use and exposure to weather conditions, depending from the kind of rope and the time of exposure, can reduce the breaking loads of the ropes.

SINGLE BRAID

DYNEFORCE 99

(Dyneema® SK99 + HPS + PU)

Dyneema® SK99 delivers the highest tenacity available in a light weight polymer fiber. Indeed, compared to Dyneema® SK78, it shows a 20% increase on tenacity and a 35% higher modulus. Dyneema® SK99 appears thinner and lighter compared to ropes with the same diameter, but with a significant increase in strength, which entails an increase on performance and a better response of the boat. Other features: low water absorption, high UV resistance, minimal elongation and good flexibility.

100% SK99 · HPS TREATMENT · PU COATED TREATMENT

PRODUCT CODE NA20C00

CONSTRUCTION 12 plait with Dyneema® SK99 impregnated with polyurethane coating and special heat treatment HPS.

USE Ideal for tackles, backstays, runners, baby stays, halyards on hydraulic cylinders, strops and loops; moreover for bindings where high breaking load, low elongation and taking up a minimal amount of space are required.

STANDARD DIAMETERS
From 1 to 30 mm. Other diameters on request.

STRETCH AT 30% B. L. 1,70%
STRETCH AT B. L. 2,86%

COLOURS White, Black, Silver Grey

White · Black · Silver Grey

SINGLE BRAID

DYNEFORCE 78

(Dyneema® SK78 + HPS + PU)

The High Modulus fiber Dyneema® SK78, characterized by a remarkable stability under constant loads, provides the following features: low creep, elevated breaking load, low elongation, low weight, low level of water absorption, high resistance to UV rays and abrasion, great flexibility, high cuting resistance. The ropes made with Dyneema® SK78 + HPS + PU are therefore destined to extreme performances, especially during highly demanding regattas when the permanent load is continuously present.

100% SK78 · HPS TREATMENT · PU COATED TREATMENT

PRODUCT CODE NA58C00

CONSTRUCTION 12 plait with Dyneema® SK78 impregnated with polyurethane coating and treatment HPS.

USE Ideal for tackles, backstays, runners, baby stays, control lines, strops and loops; moreover for lashings where a good breaking load and a low elongation are required.

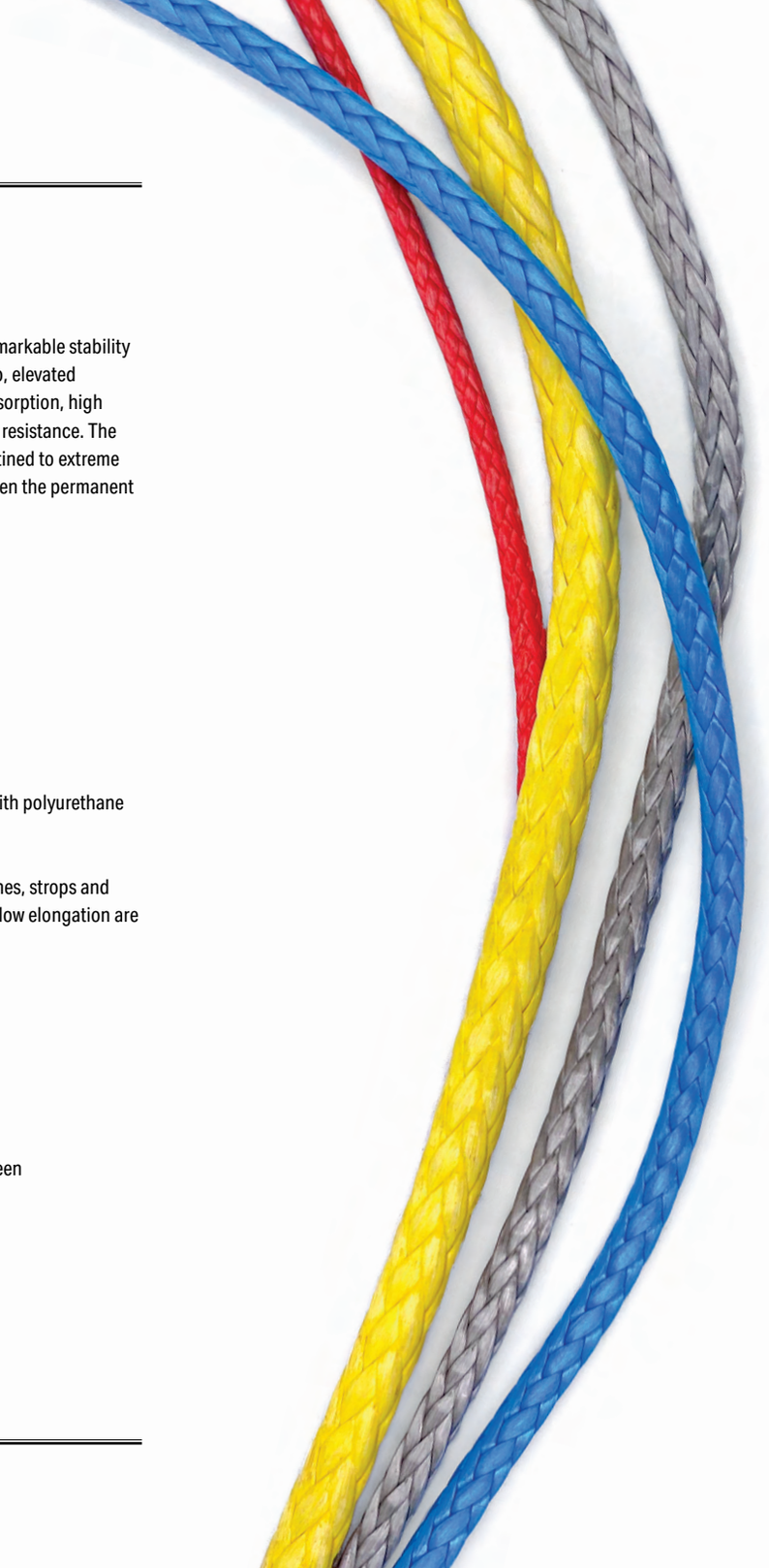
STANDARD DIAMETERS
From 1,5 to 30 mm. Other diameters on request.

STRETCH AT 30% B. L. 2,16%
STRETCH AT B. L. 3,20%

COLOURS White, Black, Silver Grey, Light Blue, Yellow, Red, Green

White · Black · Silver Grey · Light Blue

Yellow · Red · Green



DOUBLE BRAID - CORES AND COVERS

100% SK99 HPS TREATMENT PU COATED TREATMENT

DYN SK99 HPS + PU BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	ALL COVERS	PBO/DYN	PBO / BTEC (GTEC) / DYN	BTEC GTEC / DYN	BTEC (GTEC) / DYN / PET	KEV / DYN	KEV / DYN PET
		NA20C65	NA20C75 - C76	NA20C35 - C72	NA20C85 - C80	NA20C68	NA20C78
DIAM	B. L.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
[mm]	[daN]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]
1	-	-	-	-	-	-	-
1,5	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-
2,5	-	-	-	-	-	-	-
3	615	8,11	7,88	7,96	7,88	8,04	7,80
3,5	960	9,57	9,29	9,38	9,29	9,48	9,20
4	1.444	12,83	12,42	12,55	12,42	12,73	12,30
5	2.200	19,80	19,19	19,38	19,19	19,59	19,00
6	2.800	27,07	26,23	26,77	26,23	26,77	26,23
7	3.500	39,49	38,60	39,19	38,60	39,19	38,60
8	4.282	51,81	50,58	51,31	50,58	51,31	50,58
9	6.200	62,42	60,97	61,91	60,97	61,91	60,97
10	7.150	73,83	72,05	73,23	72,05	73,23	72,05
11	8.950	90,50	88,39	89,69	88,39	89,69	88,39
12	9.836	105,04	102,55	104,13	102,55	104,13	102,55
13	10.200	123,17	120,38	122,11	120,38	122,11	120,38
14	12.446	141,30	138,21	140,09	138,21	140,09	138,21
15	14.680	164,28	160,51	162,86	160,51	162,86	160,51
16	15.550	187,25	182,81	185,64	182,81	185,64	182,81
17	16.495	203,95	199,08	202,19	199,08	202,19	199,08
18	18.220	220,58	215,28	218,67	215,28	218,67	215,28
20	26.080	275,73	269,12	273,31	269,12	273,31	269,12

100% SK78 HPS TREATMENT PU COATED TREATMENT

DYN SK78 HPS + PU BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	ALL COVERS	PBO/DYN	PBO / BTEC (GTEC) / DYN	BTEC GTEC / DYN	BTEC (GTEC) / DYN / PET	KEV / DYN	KEV / DYN PET
		NA20C65	NA58C75 - C76	NA20C35 - C72	NA20C85 - C80	NA20C68	NA20C78
DIAM	B. L.	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT	WEIGHT
[mm]	[daN]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]	[g /m]
1	-	-	-	-	-	-	-
1,5	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-
2,5	-	-	-	-	-	-	-
3	500	7,73	7,73	7,58	7,55	7,61	7,43
3,5	708	9,48	9,48	9,29	9,26	9,34	9,11
4	950	12,70	12,70	12,52	12,30	12,59	12,28
5	1.386	19,60	19,60	19,19	19,00	19,40	18,81
6	2.250	26,80	26,80	26,50	26,16	26,50	26,16
7	2.669	39,10	39,10	38,80	38,22	38,80	38,22
8	3.087	51,30	51,30	50,80	50,08	50,80	50,08
9	4.995	61,80	61,80	61,30	60,37	61,30	60,37
10	5.700	73,10	73,10	72,50	71,34	72,50	71,34
11	6.900	89,60	89,60	88,80	87,51	88,80	87,51
12	8.550	104,00	104,00	103,10	101,53	103,10	101,53
13	9.716	121,80	121,80	121,00	119,00	120,79	119,00
14	10.100	139,90	139,90	138,70	136,51	138,70	136,51
15	11.600	162,65	162,65	161,25	158,76	161,25	158,76
16	13.100	185,40	185,40	183,80	181,00	183,80	181,00
17	14.500	202,00	202,00	200,15	197,08	200,15	197,08
18	16.000	218,40	218,40	216,50	213,15	216,50	213,15
20	20.000	273,00	273,00	270,60	266,46	270,60	266,46

DOUBLE BRAID - CORES AND COVERS

PBO ZYLON® - DYNEEMA

COVER: **PBO / DYN**

PRODUCT CODE: **C65**

DESCRIPTION AND USE

Thanks to the presence of PBO®, this cover has a high resistance to abrasion. The right mix with Dyneema® fibre transfers a good fluidity to the ropes when released on winch under load. Tests on racing boats have demonstrated the amazing durability to high frequency movements of the cover. High load and temperature don't scare this cover. It is a good solution for afterguys and genoa sheets.

PBO - ZYLON® / BLACK (or GOLD) TECHNORA® / DYN®

COVER: **PBO / BTEC** or **GTEC / DYN**

PRODUCT CODE VERSION WITH BLACK TECHNORA: **C75**

PRODUCT CODE VERSION WITH GOLD TECHNORA: **C76**

DESCRIPTION AND USE

Ideal choice for running rigging subjected to high loads or high temperatures. It is suitable for all those manoeuvers where very fast recoveries are necessary as it avoids the melt of the fibers and damages that affect the life of the cover. The mixture of three different high-performance fibers guarantees a remarkable durability and smoothness as well as an excellent resistance to abrasion and heat, thanks to the high melting point of the basic fibers. For the use on spinnaker/ gennaker sheets, spinnaker/gennaker halyards, runner tails.

BLACK (or GOLD) TECHNORA® / DYNEEMA®

COVER: **BTEC / DYN** or **GTEC / DYN**

PRODUCT CODE VERSION WITH BLACK TECHNORA: **C35**

PRODUCT CODE VERSION WITH GOLD TECHNORA:**C72**

DESCRIPTION AND USE

The mixture of these fibres has been carefully studied to be fairly distributed in order to make them take advantage of their mutual characteristics, both in terms of durability and performance. Excellent results in order of smoothness, abrasion resistance and durability have been reached. Ideal for high fatigue manoeuvres and repeated mechanical stress, in particular where the wear of the cover is steadily present e.g. jib sheets, tacklines and staysail sheets.

BLACK (or GOLD) TECHNORA® / DYN®/ POLYESTER

COVER: **BTEC / DYN / PET** or **GTEC / DYN / PET**

PRODUCT CODE VERSION WITH BLACK TECHNORA: **C85**

PRODUCT CODE VERSION WITH GOLD TECHNORA: **C80**

DESCRIPTION AND USE

This item is suitable for many different boats and uses because of its excellent resistance to abrasion and to repeated bending. Compared to TEC/DYN covers, it is easer to customize thanks to the presence of Polyester and it even becomes more recognizable in the distinction of the different manoeuvres. It's simple to control and to release on winches. Ideal for jib and gennaker sheets as well as for halyard and control lines.

KEVLAR® / DYNEEMA®

COVER: **KEV / DYN**

PRODUCT CODE: **C68**

DESCRIPTION AND USE

The combination in due proportions of Kevlar® and Dyneema® turns this cover into a first-class rope. It's a good alternative to PBO/DYN covers as soon as slightly lower loads but high repetition cycles on running rigging are required. Tests made on board of the top of the class racing boats during hard sessions of match races confirmed that those two fibres work in symbiosis and that their characteristics compensate one another. This cover is used on One Design jib sheets and high-load tackles whenever the repetition of cycles on running rigging is high.

KEVLAR® / DYNEEMA®/ POLYESTER

COVER: **KEV / DYN / PET**

PRODUCT CODE: **C78**

DESCRIPTION AND USE

It preserves similar characteristics as its sister-cover BTEC/DYN/PET, but thanks to the high melting point of Kevlar® it is more suitable for high speed manoeuvres and loads. It holds one of the best grips but a lower UV resistance in comparison to Black Technora®, which is composed by special pigments that protract the life of the rope, despite of the exposure to UV rays. Ideal for manoeuvres of high fatigue and cyclical mechanical stress e.g. jib sheets, tacklines and staysail sheets.

Soft Braid Ropes

Line of ropes specifically developed for an extreme use on high performance monotypes. A selection of soft braids characterized by their exclusive "Super Shape" construction with anti-flattening insert, suitable to be used as sheets on ratchet blocks in professional monotypes such as Melges, J-70 and others.

SUPER SHAPE

SOFT BRAID RACING

Soft Braid 5
Core: Supercompact Dyneema® SK78 + Super Shape + PU
Cover: Polyester + GRIP / Dyneema®

Soft Braid 6
Core: Supercompact Dyneema® SK78 + Super Shape + PU
Cover: Polyester + GRIP / Kevlar®

Soft Braid 7
Core: Supercompact Dyneema® SK78 + Super Shape + PU
Cover: Polyester + GRIP / Dyneema® / Kevlar®

Soft Braid 8
Core: Supercompact Dyneema® SK78 + Super Shape + PU
Cover: Black Technora® / Black Dyneema® / Black Polyester

Supercompact Core

The Supercompact core makes it easy to remove the cover and lightens the finished line, maintaining an incomparable compactness of the braid, ensuring high resistance to abrasion, good breaking load and low elongation.

Grip Treatment

This specialized treatment applied to the cover yarn delivers superior handling and increased stopper grip, and makes these ropes the perfect choice for high-performance One Design monohulls.

Super Shape Treatment

The exclusive Super Shape construction prevents deformation and flattening from repeated use through ratchet blocks, maintaining perfect roundness and consistent grip.

SOFT BRAID - BREAKING LOAD AND WEIGHT COMPARATIVE TABLE

Ø	**SOFT BRAID 5** PET + GRIP / DYN		**SOFT BRAID 6** PET + GRIP / KEV		**SOFT BRAID 7** PET + GRIP / DYN / KEV		**SOFT BRAID 8** BTEC / CDYN / PET	
	NA26C82		NA26C84		NA26C83		NA26C85_CDY	
DIAMETER	B. L.	WEIGHT	B. L.	WEIGHT	B. L.	WEIGHT	B. L.	WEIGHT
[mm]	[daN]	[g /m]	[daN]	[g /m]	[daN]	[g /m]	[daN]	[g /m]
4	**-**	-	**-**	-	**-**	-	**-**	-
5	**-**	-	**-**	-	**-**	-	**-**	-
6	**800**	30,20	**800**	31,10	**800**	30,80	**800**	30,80
7	**1.100**	38,40	**1.100**	39,60	**1.100**	39,20	**1.100**	39,20
8	**1.530**	51,20	**1.530**	52,80	**1.530**	52,20	**1.530**	52,20
9	**2.300**	63,60	**2.300**	65,50	**2.300**	64,90	**2.300**	64,90
10	**3.230**	76,10	**3.230**	78,40	**3.230**	77,60	**3.230**	77,60
11	**4.400**	90,00	**4.400**	92,70	**4.400**	91,80	**4.400**	91,80

NOTE ABOUT BREAKING LOAD AND DIAMETERS The average values shown above are derived from tests taken at Armare laboratory, on properly spliced new ropes, and may change without notice. Other diameters available on request. The static load of the rope must not exceed 20% of breaking load shown in the table. Knots may affect the breaking load of the rope with reductions of up to 60%. The splicing increases the diameter of the rope of about 1.5 times. The use and exposure to weather conditions, depending from the kind of rope and the time of exposure, can reduce the breaking loads of the ropes.

SOFT BRAID 5

PET + GRIP / DYN

100% SK78 · PU COATED TREATMENT · SUPER SHAPE

PRODUCT CODE
NA26C82

CONSTRUCTION Double Braid
COVER Polyester + Grip / Dyneema®
CORE Braid made with Supercompact Dyneema® SK78, impregnated with PU Coating and anti-flattening insert.

FEATURES AND USE
Sliding cover and resistant to abrasions. Super Shape core with anti-flattening insert. For sheets which are designed to perfectly work on winches and blocks and do not create loops and kinks.

STANDARD DIAMETERS From 6 to 11 mm
STRETCH AT 30% B. L. 2,70%
STRETCH AT B. L. 3,40%

COLOURS
Black, Silver Grey, Yellow, Yellow Fluo, Red, Orange Fluo, Green, Light Blue.

SOFT BRAID 5

PET + GRIP / KEV

100% SK78 · PU COATED TREATMENT · SUPER SHAPE

PRODUCT CODE
NA26C84

CONSTRUCTION Double Braid
COVER Polyester + Grip /Kevlar®
CORE Braid made with Supercompact Dyneema® SK78, impregnated with PU Coating and anti-flattening insert.

FEATURES AND USE
This cover is very resistant to high temperature abrasions. Super Shape core with anti-flattening insert. For sheets that are designed to perfectly work on winches and blocks and suffer from high temperature wear and tears reached during fast surges. It doesn't create loops and kinks.

STANDARD DIAMETERS From 6 to 11 mm
STRETCH AT 30% B. L. 2,70%
STRETCH AT B. L. 3,40%

COLOURS
Black, Silver Grey, Yellow, Red, Green, Light Blue.

SOFT BRAID 7

PET + GRIP / DYN / KEV

100% SK78 · PU COATED TREATMENT · SUPER SHAPE

PRODUCT CODE
NA26C83

CONSTRUCTION Double Braid
COVER Polyester + Grip /Dyneema® / Kevlar®
CORE Braid made with Supercompact Dyneema® SK78, impregnated with PU Coating and anti-flattening insert.

FEATURES AND USE
This cover is very resistant to high temperature abrasions. Super Shape core with anti-flattening insert. For sheets that are designed to perfectly work on winches and blocks and suffer from high temperature wear and tears reached during fast surges. It doesn't create loops and kinks.

STANDARD DIAMETERS From 6 to 11 mm
STRETCH AT 30% B. L. 2,70%
STRETCH AT B. L. 3,40%

COLOURS
Black, Silver Grey, Yellow, Red, Green, Light Blue.

SOFT BRAID 8

BTEC / CDYN / PET

100% SK78 · PU COATED TREATMENT · SUPER SHAPE

PRODUCT CODE
NA26C85_CDY

CONSTRUCTION Double Braid
COVER Black Technora® / Black Dyneema® / Black Polyester
CORE Braid made with Supercompact Dyneema® SK78, impregnated with PU coating and anti-flattening insert.

FEATURES AND USE
This cover is very resistant to high temperature abrasions. Super Shape core with anti-flattening insert. For sheets that are designed to perfectly work on winches and blocks and suffer from high temperature wear and tears reached during fast surges. It doesn't create loops and kinks.

STANDARD DIAMETERS From 6 to 11 mm
STRETCH AT 30% B. L. 2,70%
STRETCH AT B. L. 3,40%

COLOURS
Black.

OFFICIAL SUPPLIER Naples 2027 | Emirates TEAM NEW ZEALAND

Becoming part of the America's Cup legacy

Armare Ropes is an Official Supplier to Emirates Team New Zealand. We designed, developed and produced the special ropes that took the team of New Zealand to three successes in a row in the last three America's Cup.

This long-standing collaboration strengthens the bond between two organizations driven by innovation, precision and excellence in sailing.

The partnership will continue through the 38th America's Cup Campaign, which will take place in Naples in 2027, where Armare's cutting-edge rope solutions will once again support the performance of one of the most successful teams in the history of the Cup.

FIV | armare ROPES & CABLES

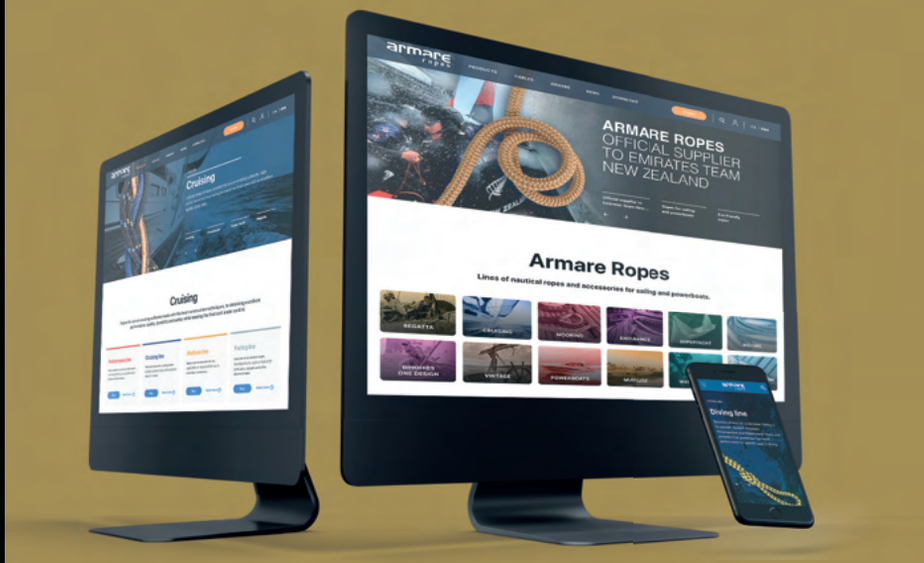
Fornitore Ufficiale

Supporting young sailors

Armare partners with the Federazione Italiana Vela, supporting sailing development from youth programs to national and international championships. Our ropes combine safety, durability and top-level performance, helping sailors of all levels pursue excellence on the water.

Through these partnerships, Armare Ropes demonstrates its commitment to innovation, quality and the global sailing community, sharing expertise and solutions with both elite teams and the next generation of sailors.

Discover more



Discover more about the Armare Ropes products range:
www.armareropes.com

All the products can also be purchased directly online:
store.armareropes.com

There are also different publications that group some of our product lines. You are welcome to either download a PDF version or require a hard copy by contacting Armare Ropes customer support: **info@armare.it**

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