



**Shaping the future**



CREATING THE NEXT GENERATION  
OF YARNS AND FIBERS





## Nexis Fibers- Company Overview

Nexis Fibers is a major player in the field of Industrial Yarn production.

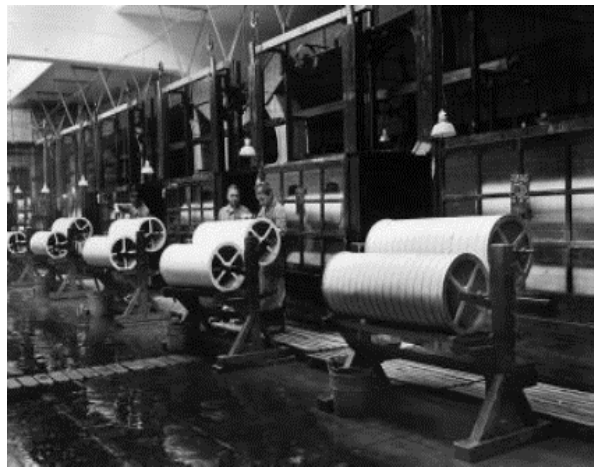
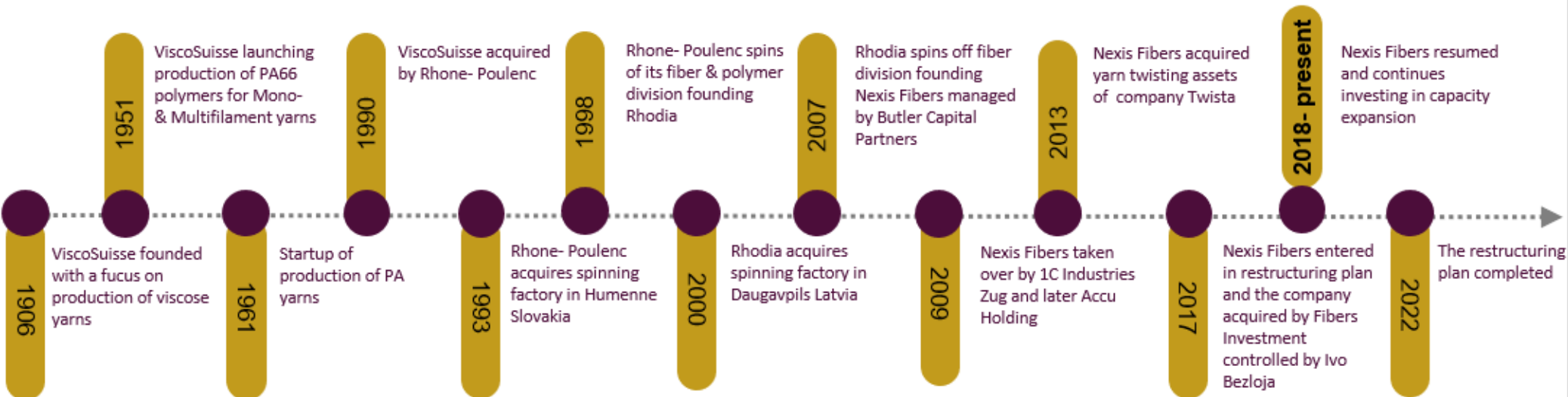
The company designs, develops and delivers wide range of products and services to its customers in Europe and around the world in a range of segments, including: Airbags and Weaving, Tires and MRG (mechanical rubber goods), Safety and Leisure Ropes, Deep- Sea and Fish- Farming Nets and last but not least Specialty Polymers PA6.10 and PA6.12

Nexis Fibers guarantees a high level of quality and excellent end- use properties. The company holds the Quality Certificates EN ISO 9001:2015, IATF 16949, ISO 14001, CSR Gold Rating by EcoVadis, the Bluesign, and Oeko- Tex Certificate. The company strategy towards the sustainability, recognized with CDP award, demonstrates a strong commitment to environment.





With over 100 years of history and a worldwide customer base, Nexis Fibers is a major player on the industrial yarns market



## European foot print with global business approach



Strategic location with great proximity to the key customers in the EU



Recognized by customers as a reliable business partner with strong relationships owing to consistent quality of products, after-sales services and flexibility



Global approach with commercial team in Europe and North America providing direct contact with customers



Seeking out new product- and service innovations as well as offering customers partnership opportunities for tailor- made solutions



Excellent position for continued growth through existing capacity optimization and investments



## Nexis Fibers at a glance

**Sales revenue 2021- 100 MEuro**

**Global market leader position with Specialty & Safety Rope**

**Leading market position with Technical Textile Weaving and Deep Sea Fishing & Farming market in Europe**

**Leading market position with Tire & MRG in Central- Eastern Europe**

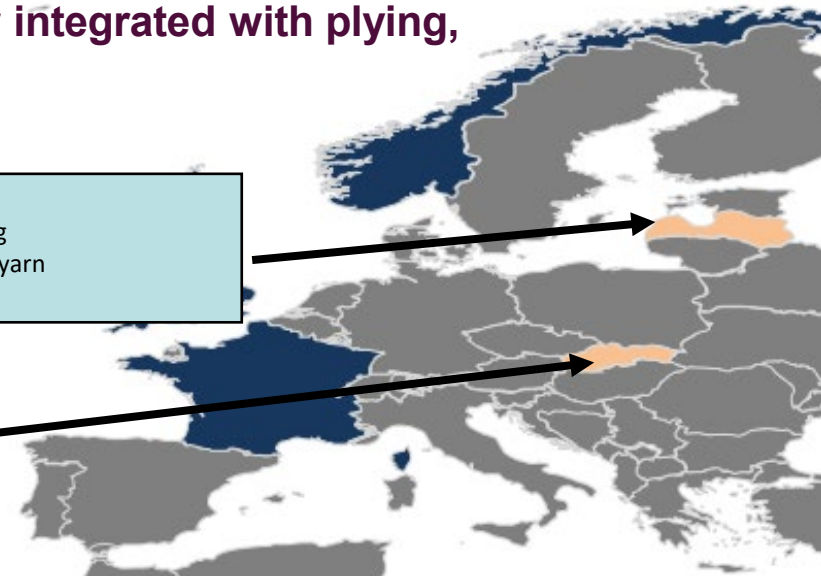
**The only Polyamide High Tenacity Yarns manufacturer integrated with plying, twisting and air- texturing process in Europe**

### Daugavpils, Latvia

- Spinning and Twisting
- Capacity : 13 KT PA6 yarn
- ISO 9001 certified

### Humenné, Slovakia (Headquarters)

- Spinning, Twisting, Air Texturing
- Specialty Polymer production
- 25 KT: PA6.6, PA6, White & Spun Dyed yarn
- 4.3 KT: PA6.10, 6.12 polymer chips
- ISO9001, TS16949



## Vision:

To remain a preferable supplier of Polyamide Yarns and Specialty Polymers all across the Industrial Textile & Plastic Industry through Diversification & Flexibility

## Implementation:

- Business model driven by global approach toward market segments
- S&OP driven supply chain
- Capacity optimization (cost effectiveness)
- Investments supporting business/ product portfolio development

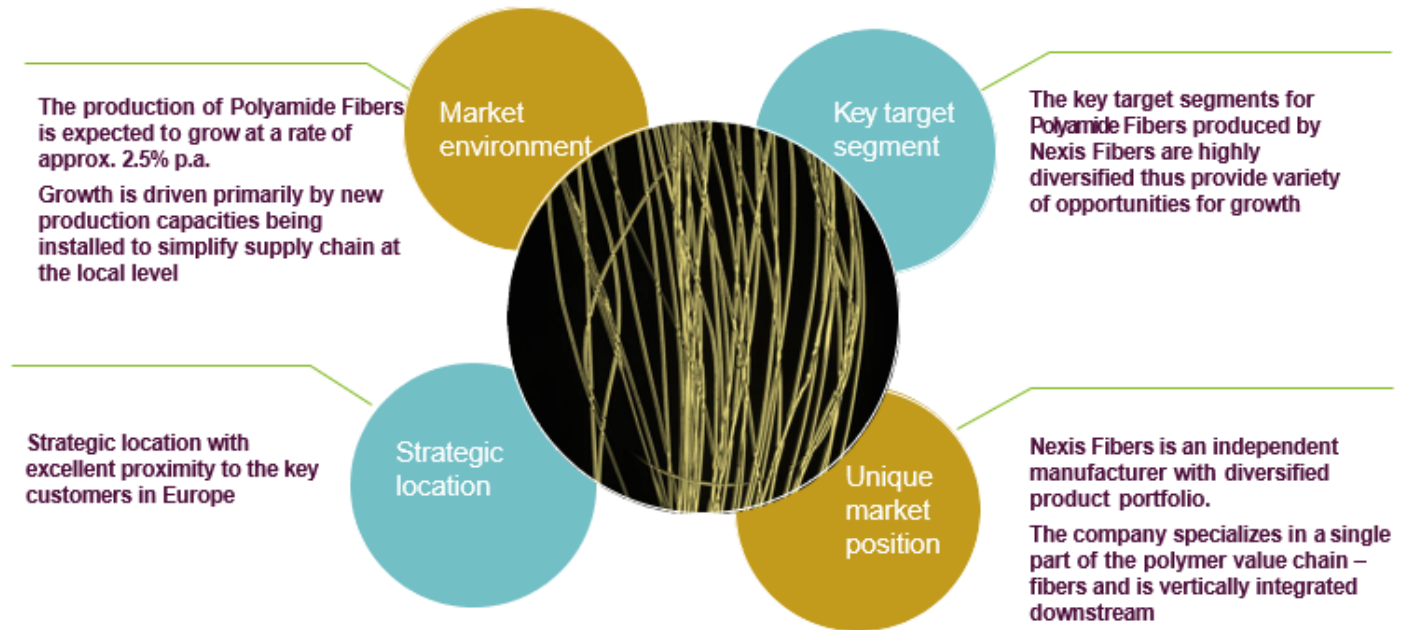






## Market Environment

Nexis Fibers focuses on yarn production with growth potential in unique- customized high tenacity yarns and in the special polymers





# Nexis Fibers serves demanding applications in various industries



## Yarns for Tires & MRG

High and Super High Tenacity, Multifilament Polyamide 6 and 6.6 Yarns for the Tire and Mechanical Rubber Goods Markets:

- Passenger Car Tires
- Off-Road Tires
- Aircraft Tires
- Conveyor Belts
- Air springs
- Hoses



## Special Polymers

Polyamide 6.10, 6.12 (various viscosities) and PA6.6 Post-condensated for High Demanding Applications:

- Monofilaments
- Engineering Plastics
- Filtrations
- Abrasives



## Yarns for Ropes & Nets

High and Super High Tenacity, Multifilament Polyamide 6 (White & Spun-dyed) Yarns for the Specialty & Industrial Ropes and Nets Markets:

- Safety Ropes for Mountaineering and Arborist
- Paper Carrier Ropes
- Marine Ropes
- Deep Sea Nets
- Fish Farming Nets
- Sport & Safety Nets



## Yarns for Airbags & Weaving

High and Super High Tenacity, Multifilament Polyamide 6 (White & Spun-dyed) and 6.6 Yarns for Airbag and Weaving Markets:

- Airbag
- Broad Woven
- Narrow Woven
- Sewing Threads
- Air Jet Textured Applications



## Twisted & Air-Jet textured yarns

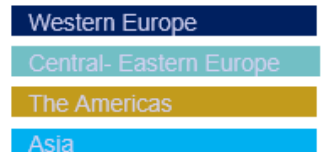
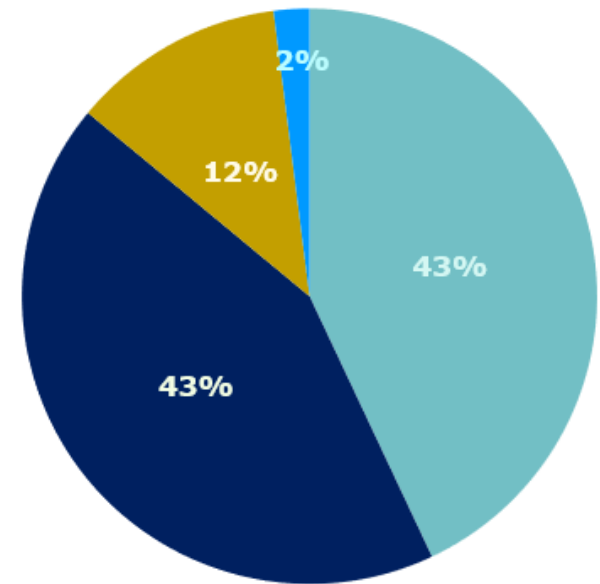
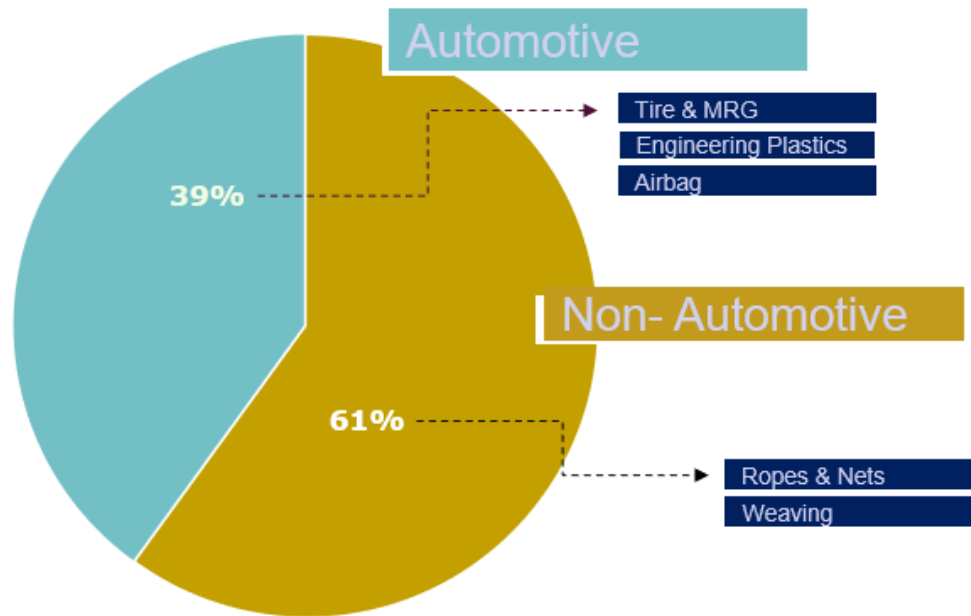
Twisted and Air-Jet Textured using Polyamide or customer's yarn (PES, Acetate, Viscose, etc.) for Industrial Applications:

- Ropes and Nets Pre-Twisted Yarns
- Chafer for Tires and Textile Applications





## Production and Sales of Nexis Fibers is highly diversified in terms of product segments





# Nexis Fibers- manufacturer and solutions provider

Vertical integration with assembling- twisting and air- jet texturing process generates savings through simplified supply chain provided to customers



## Twisting machine VERDOL

- Yarn count range: 940 – 45000 dtex
- Twist range: 20 to 600 tpm
- Package: up to OD 300mm

## Twisting machine ROBLON TORNADO 300

- Yarn count range: 11000 – 145000dtex
- Twist range: 20 to 134 tpm
- Package: up to OD 300mm
- Cross-winding: Precision

## Air- jet texturing machine- ICBT

- Yarn count range: 370 – 3000 dtex
- Package: up to OD 300mm

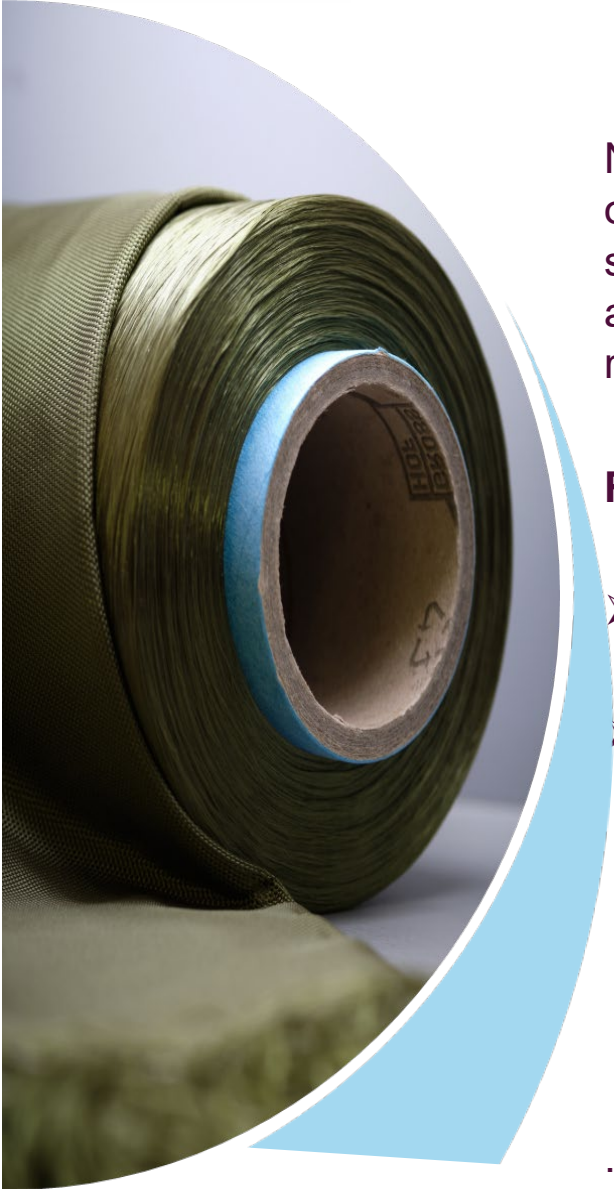


## Nexis Fibers- shaping the future

Nexis Fibers' Product Development Organization is structured with a team of process engineers, operators, lab technicians, as well as technical support specialists. The Organization is available to assist, perform trials, and engineer the yarns in function of the final product properties and requirements

### Recent developments focused on:

- Bringing sustainable alternatives to traditional petroleum based yarns
- Minimizing impact on environment through elimination of additional chemical treatments on technical textiles



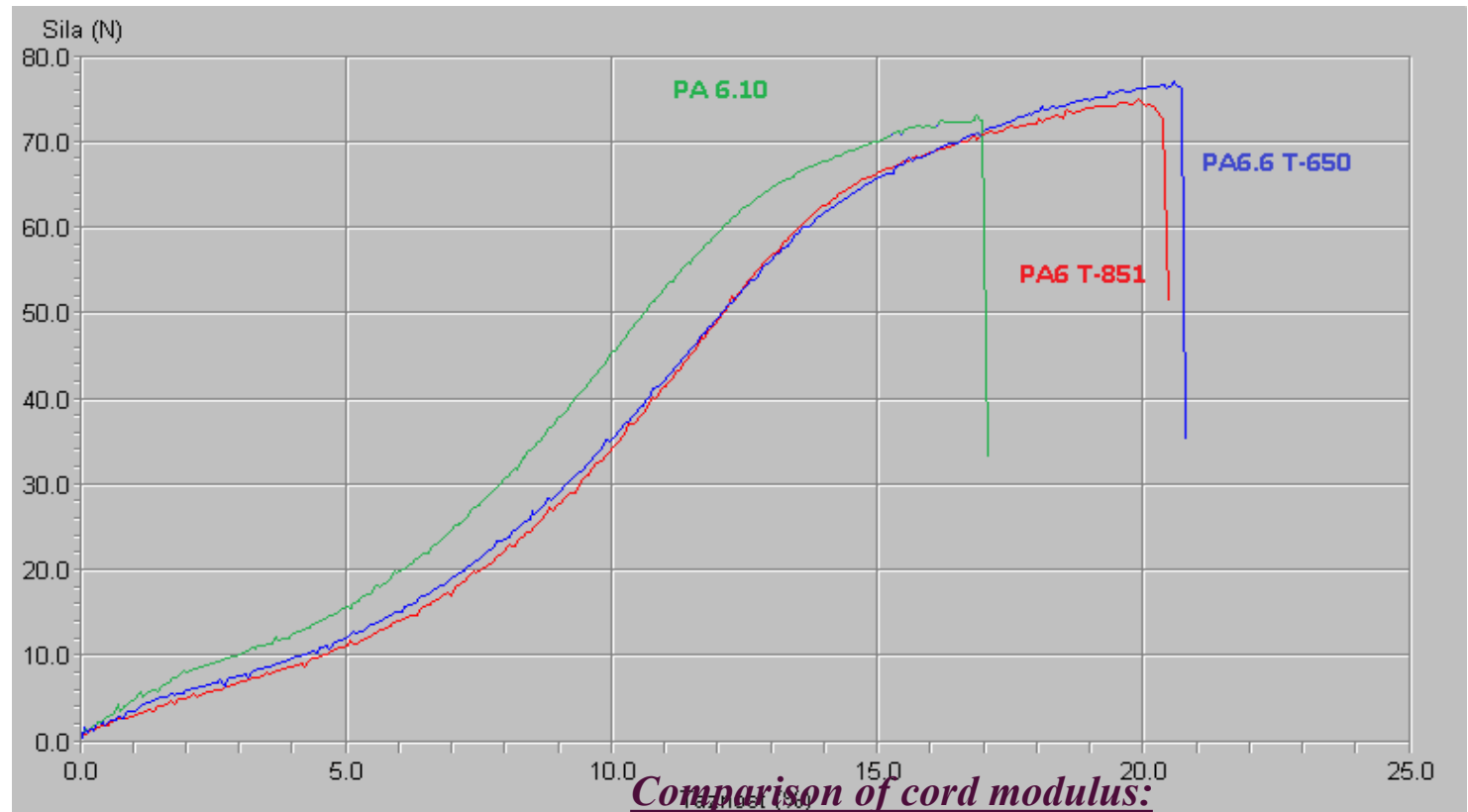
## New in product portfolio

### Bio- based yarns PA6.10

- Brand new fibers made out of bio-based monomer, largely derived from castor oil plants
- Sustainable alternative to traditional petroleum-based fibers, Bio-based content of 63%
- Reduced water absorption in comparison to Polyamide 6 and Polyamide 66
- Heat and UV protected



## Bio- based yarns PA6.10



**PA 6.10 T951 - 940dtex**  
**PA 6 T851 - 940dtex**  
**PA 6.6 T650 - 940dtex**



## New in product portfolio

### Hydrophobic (Dry) yarns

- 85 % less water absorption in comparison to traditional Polyamide Fibers (passing UIAA standard)
- PFC free treatment
- Homogenous coating during spinning at capillary level
- UV protected, Oeko-tex 100 certified





## Hydrophobic (Dry) yarns

New hydrophobic yarns are specifically developed for production of premium quality textiles requiring water repellent function such as safety ropes and harnesses, protective garments and luggage fabrics.

Unique hydrophobic properties are achieved during spinning process by coating of each single filament. The uniformity of application assures consistent functionality of every filament across entire yarn bobbin.

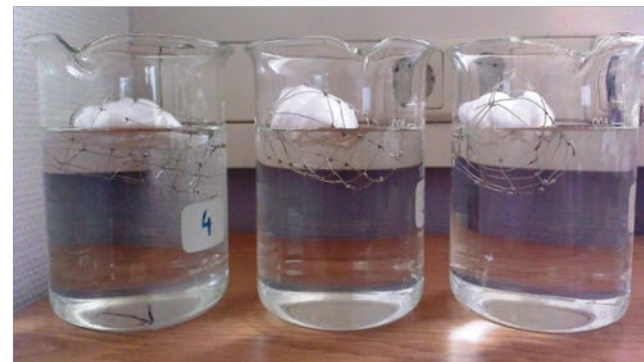
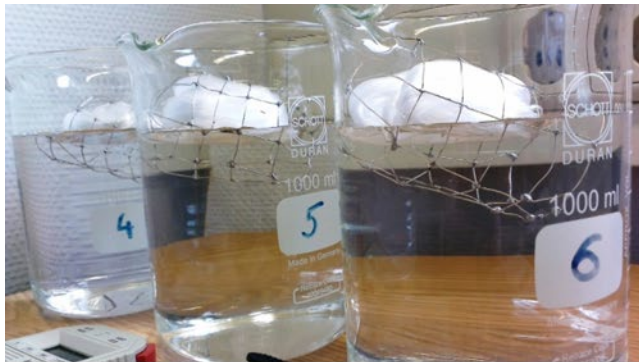
Apart of the raw white yarns in T372H and T321H, various colors in T051H and T052H are offered.

In order to achieve high dynamic properties of finished goods yarns are made available as plied/twisted and heat set.

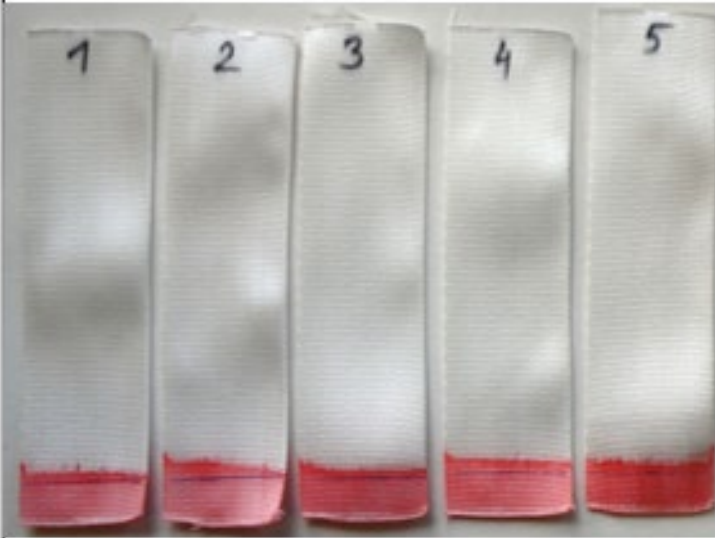



## Hydrophobic (Dry) yarns

**No wetting observed during the test for 14 days while yarns with standard spin finish do sink within 2 – 3 seconds**



## Hydrophobic (Dry) yarns

Webbing made out of hydrophobic fibers	Untreated fibers
 <p>Wicking hight 2 – 4 mm (72 hours)</p>	 <p>16 cm (6h)</p>

### Webbing made out of hydrophobic fibers

(samples No. 1-5)

- ☐ 0 - 2 mm in 24 hrs.
- ☐ 2 - 4 mm in 72 hrs.

### Webbing made out of standard fibres

(sample No. 6)

- ☐ 45 mm in 1 min.
- ☐ 86 mm in 5 min.
- ☐ 160 mm in 6 & after 24 hrs.

## New in product portfolio

### Infrared Invisible Yarns (IRI)

- Customized spun dyed fibers for camouflage garments to minimize contrast between objects and their environment while using Infrared Red (IR) night vision
- Reflectance at wavelength of 700-1200nm according to MILITARY REQUIREMENTS
- Improved color fastness and reflectance results in comparison to traditional surface dyeing
- Minimized environmental impact due to elimination of additional chemical treatment on textiles





# Infrared Invisible Yarns (IRI)

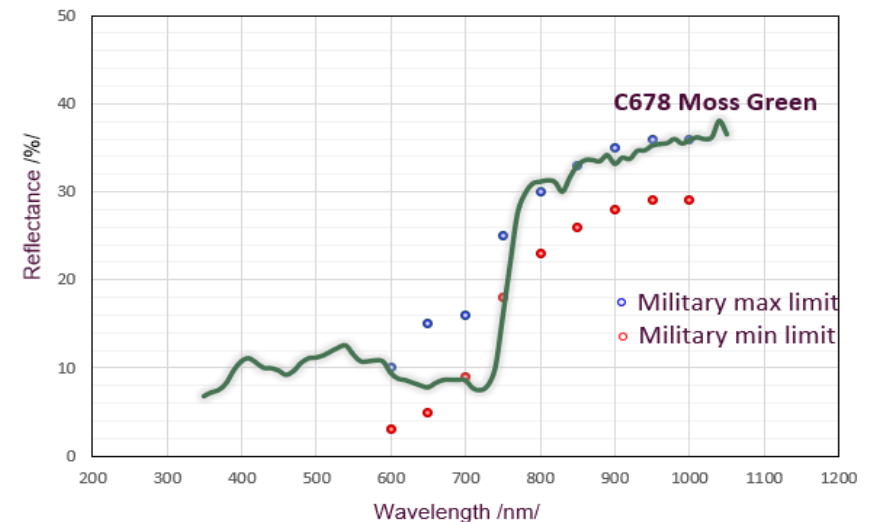
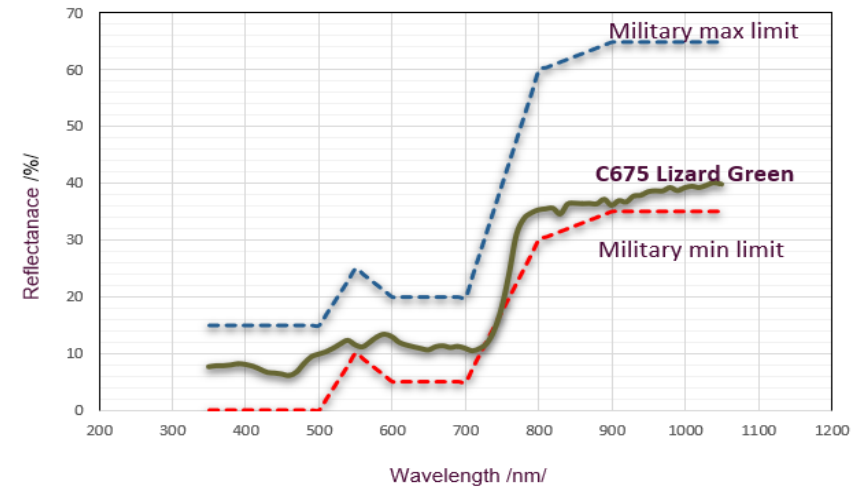
IRI T051 940f136 C640 – Mimicry Green

IRI T051 940f136 C675 – Lizard Green

IRI T051 940f136 C678 - Moss Green

IRI T051 940f136 C981 - Black

Reflectance of NEXIS FIBERS C675- Lizard Green and Common Military Requirements for Green Camouflage Color I.





## Our current key customers



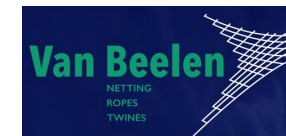
CABOS Y REDES, S.A.



TOGETHER IN MOTION



Milliken







**Thank you for your attention**



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