
AMANN
GROUP
Intelligent threads
OUTDOORPRO
AMANN
THE SEWING THREAD FOR
MOST EXTREME WEATHER CONDITIONS

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The sewing thread for most extreme weather conditions

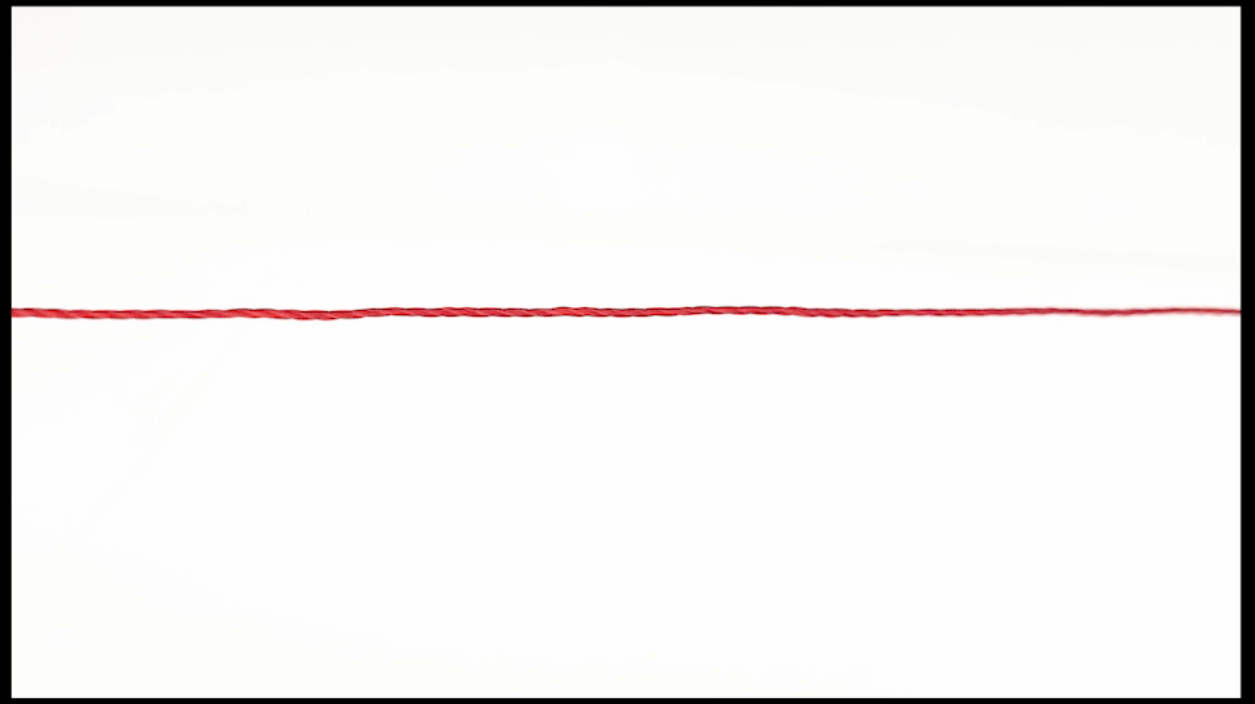
- made from high tenacity Polyester multifilament
- suitable for any outdoor application
- equipped with our PFC-free water-repellent finish as standard
- brilliant colours & textile look
- specially suited for multidirectional sewing
- excellent UV resistance due to special dyestuffs
- weathering test
- available tickets
  - 10 (Tex 270; V277)
  - 15 (Tex 210; V207)
  - 20 (Tex 135; V138)
  - 30 (Tex 90; V92)
  - 40 (Tex 70; V69)

Performance profile comparison

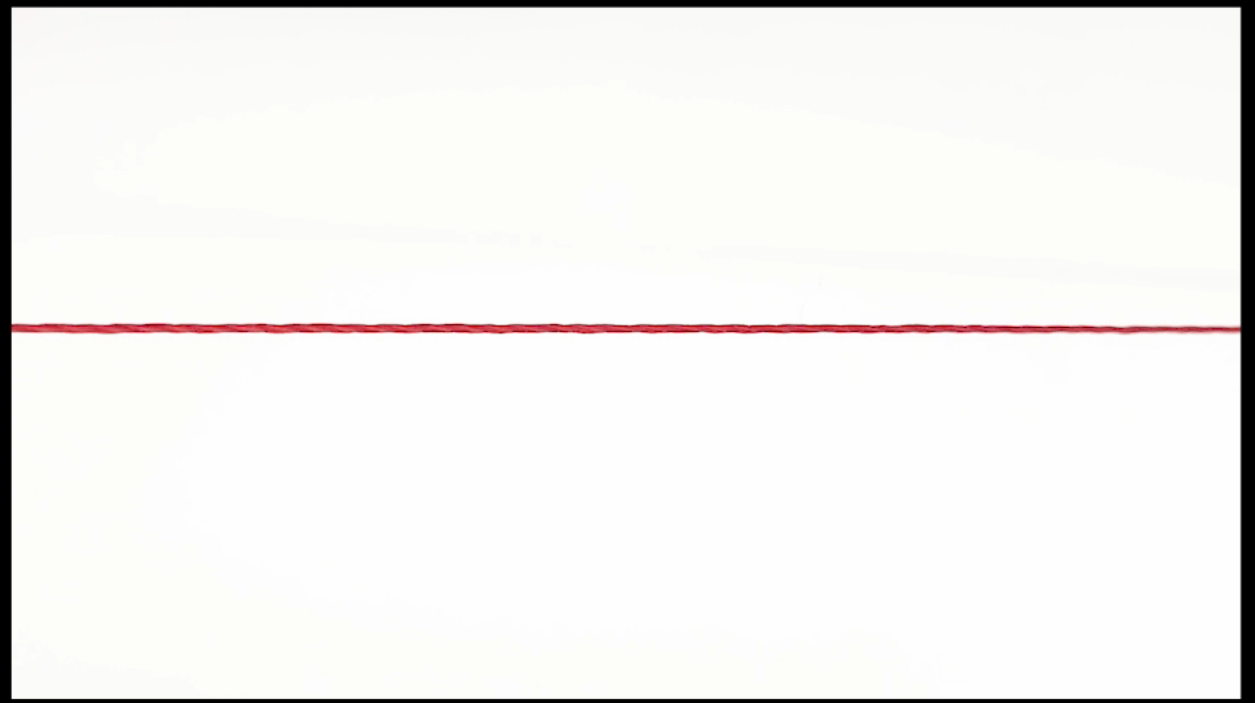
	OUTDOORPRO AMANN	Continuous filament PET	Bonded continuous filament PET	PTFE sewing thread (e.g. Teflon®)
Multidirectional sewing applications	✓	✗	✓	✗
High UV-resistance (colour fastness)	✓	✗	✓	✓
Water-repellent seams	✓	(✓)	(✓)	✓
Brilliance of colours (in finished seam)	✓	✓	✗	✓
Wide colour range	✓	✓	✗	✗
Textile look	✓	✓	✗	✗
Abrasion resistance of seams	✓	✓	✓	✓
Dust-free sewing	✓	✓	✗	✓

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OUTDOOR-PRO



CONTINUOUS FILAMENT PES



Untwisting trial:

Outdoor-Pro bonding effect in comparison to continuous filament PES

Processing performance trial

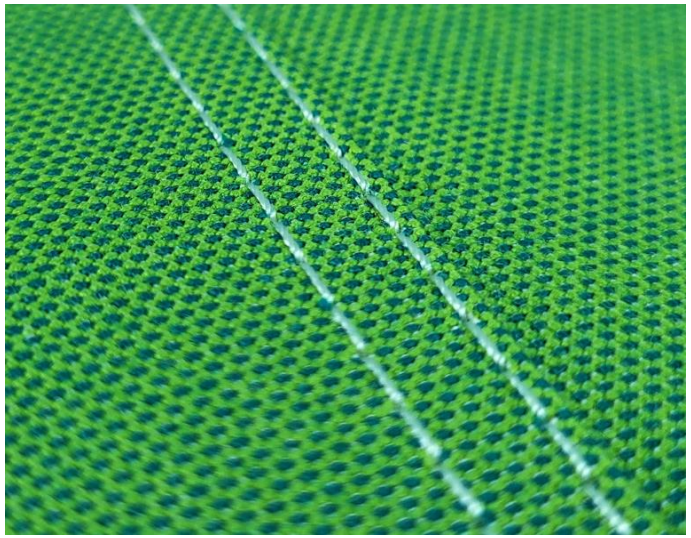


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Application examples



- Multidirectional seams



- 2-Needle-lock-stitch-seams

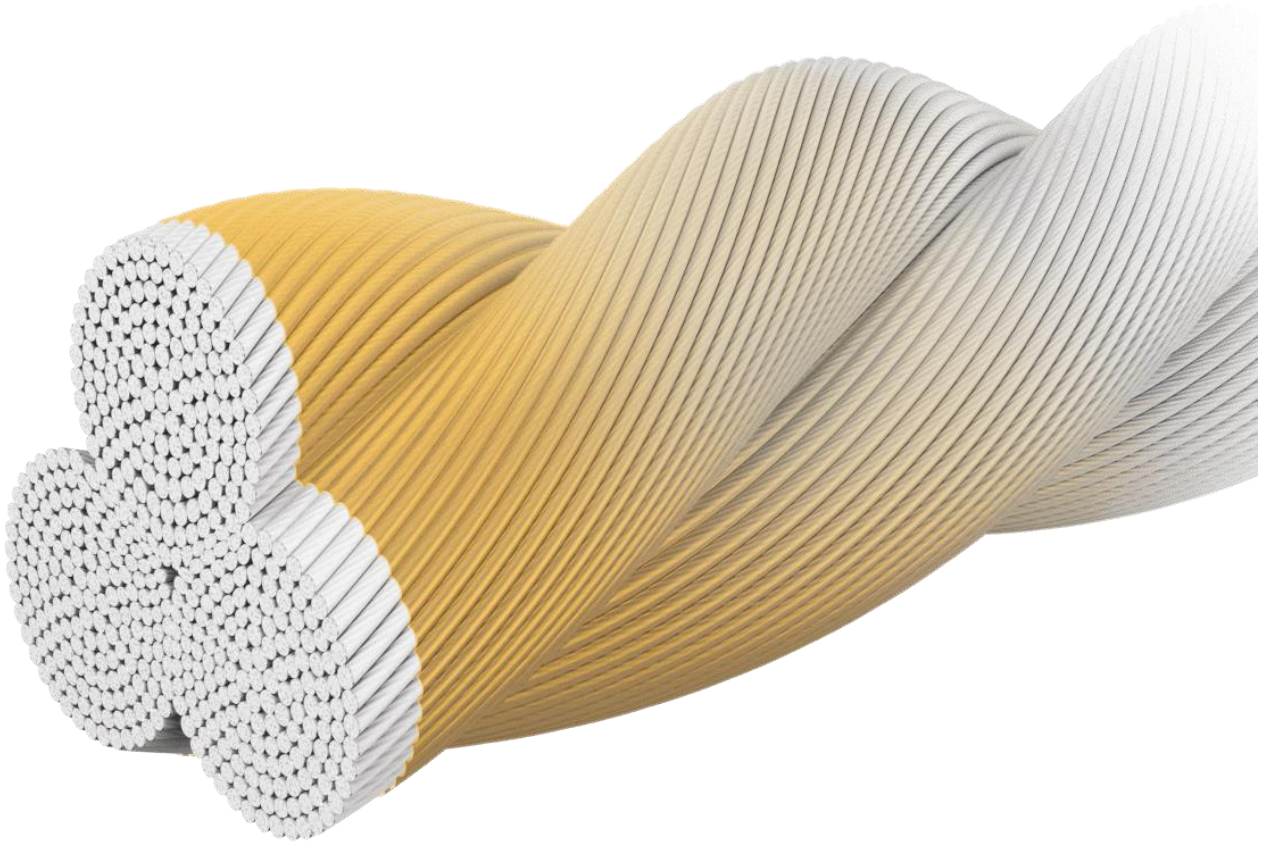


- Zig-Zag seams

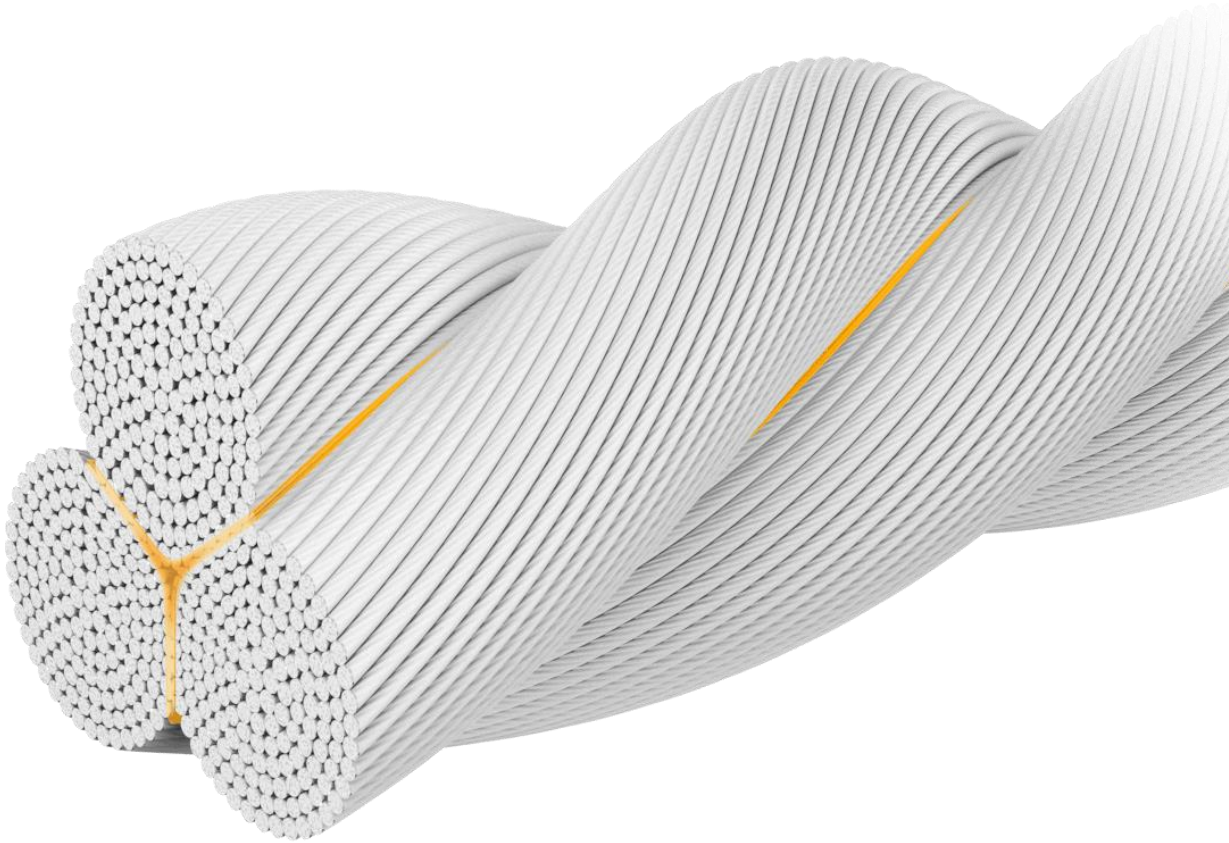
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What is special about Outdoor-Pro?

Outer-Bond



Inner-Bond

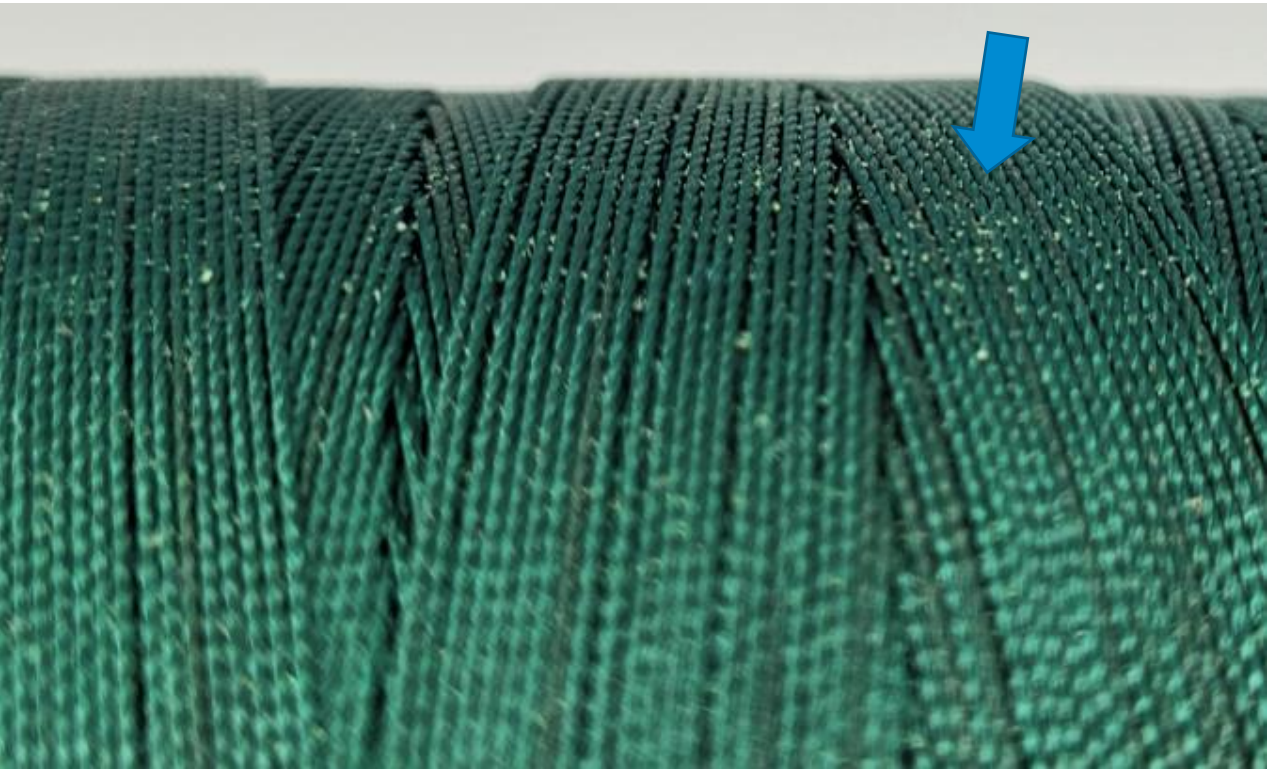


→ no impact on optical appearance and colour

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What is special about Outdoor-Pro?

Outer-Bond

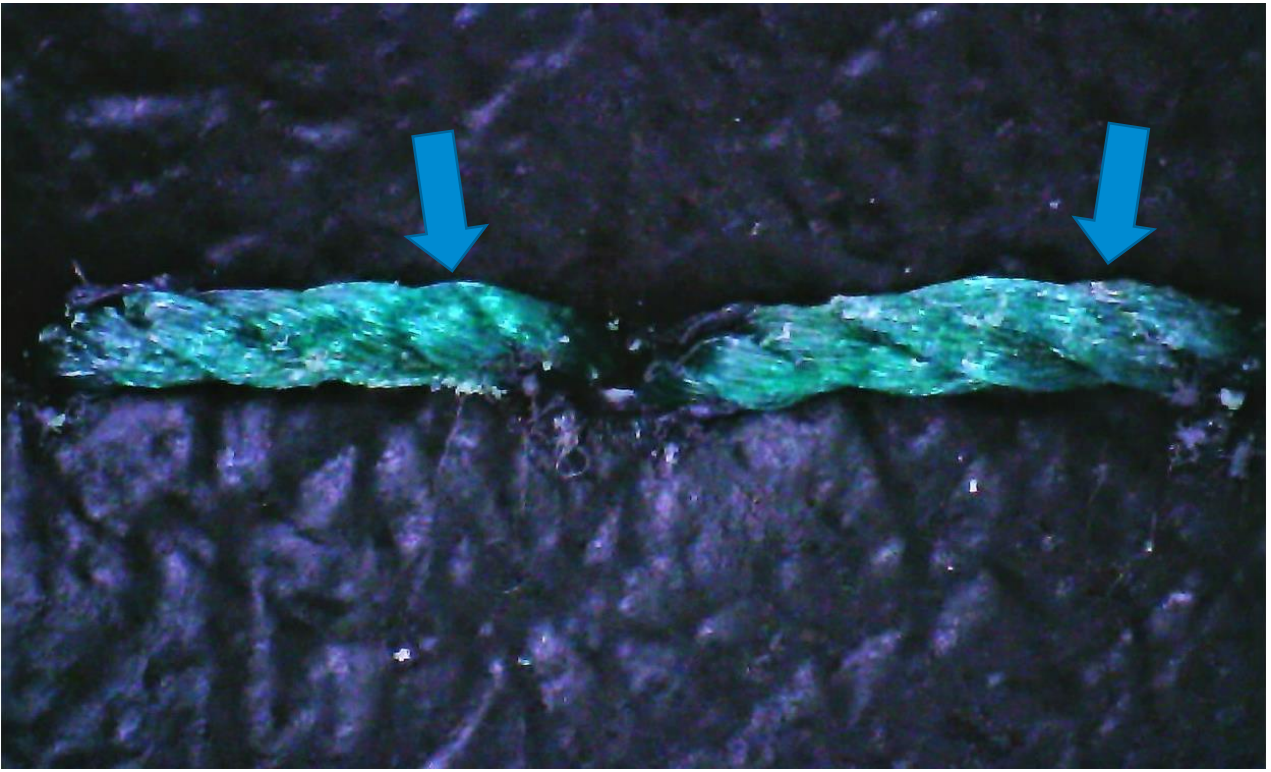


Inner-Bond

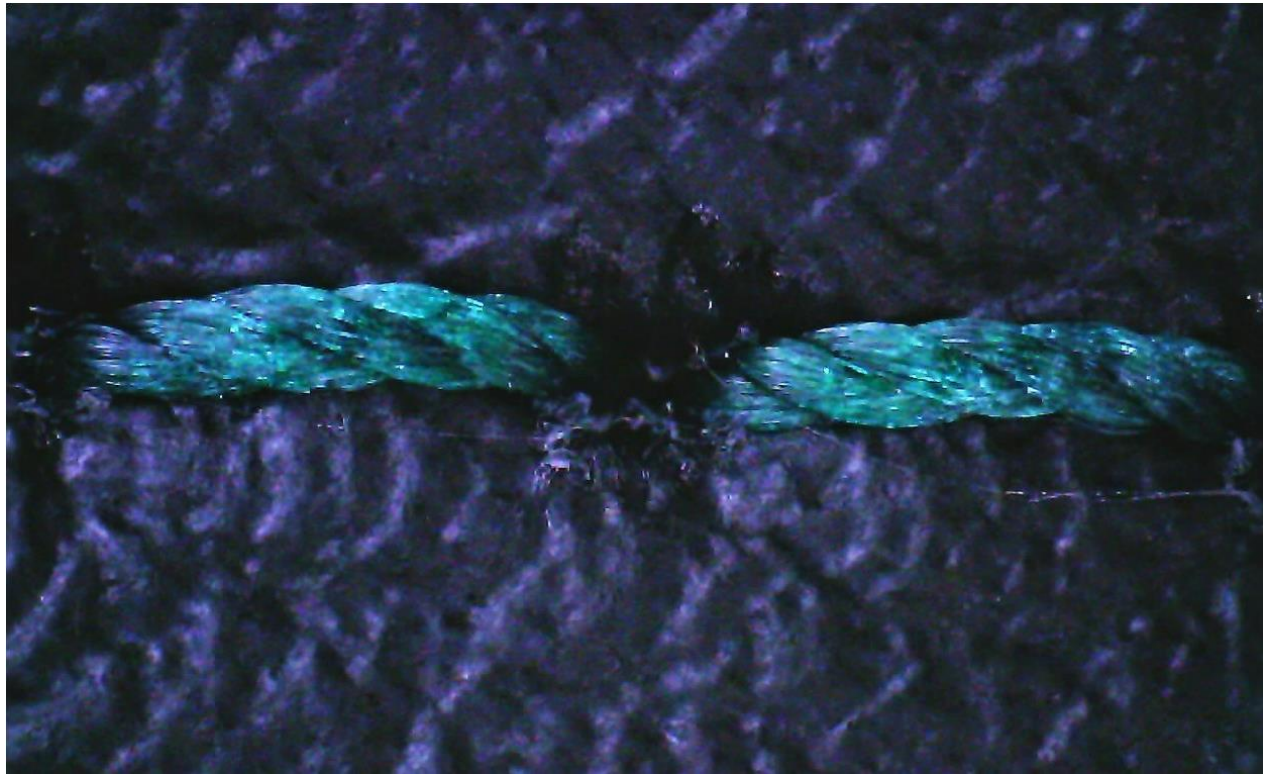


What is special about Outdoor-Pro?

Outer-Bond



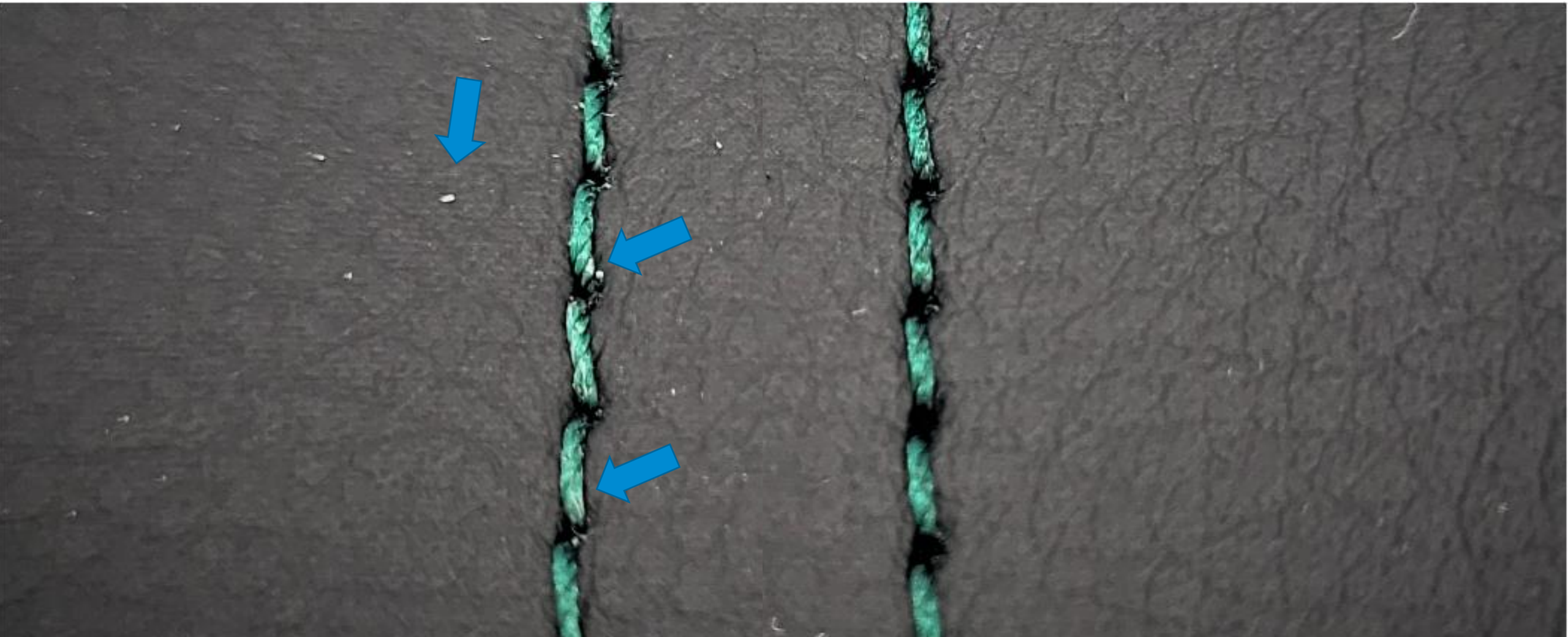
Inner-Bond



What is special about Outdoor-Pro?

Outer-Bond

Inner-Bond



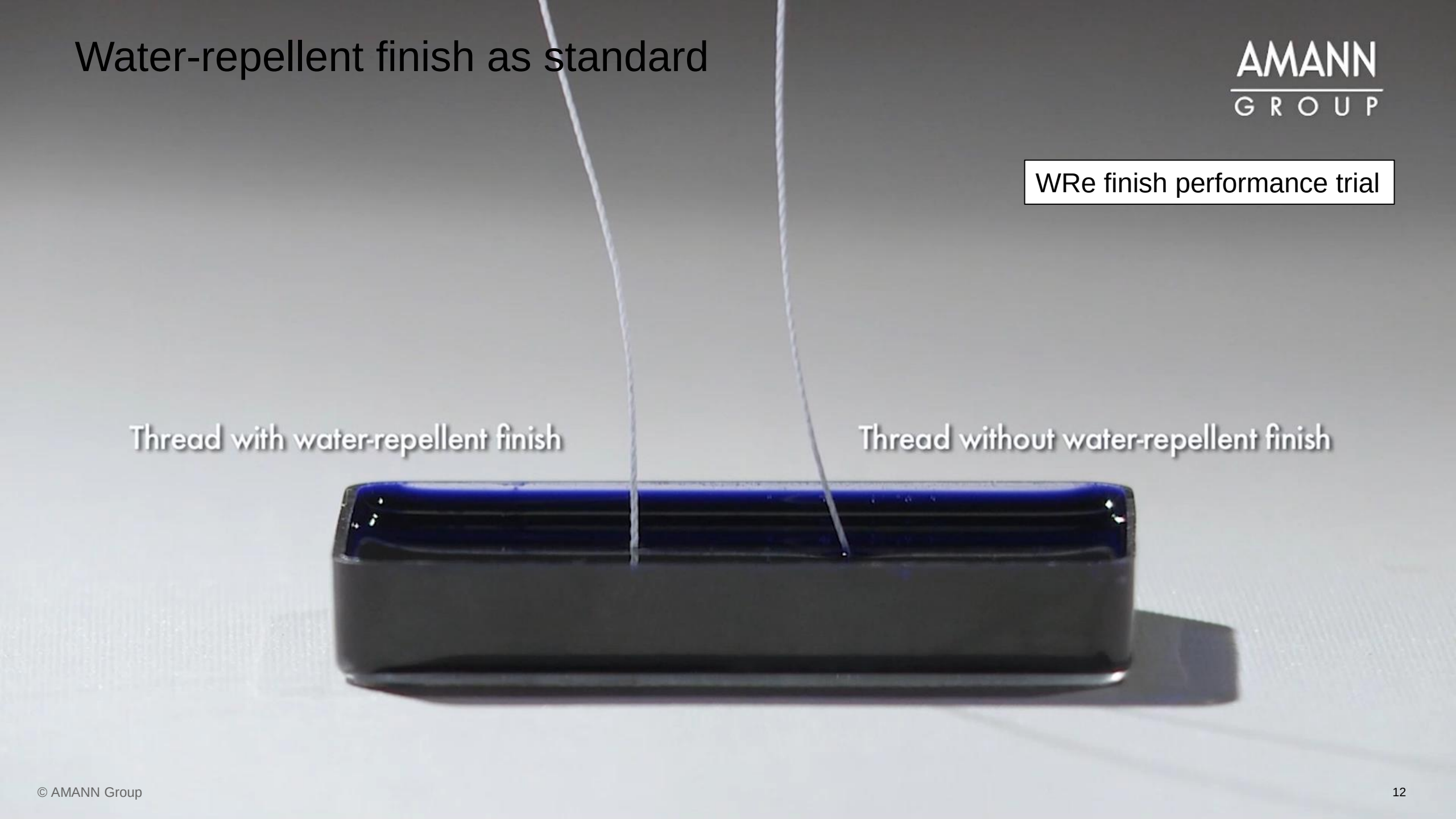
Outdoor-Pro colour brilliance



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Water-repellent finish as standard

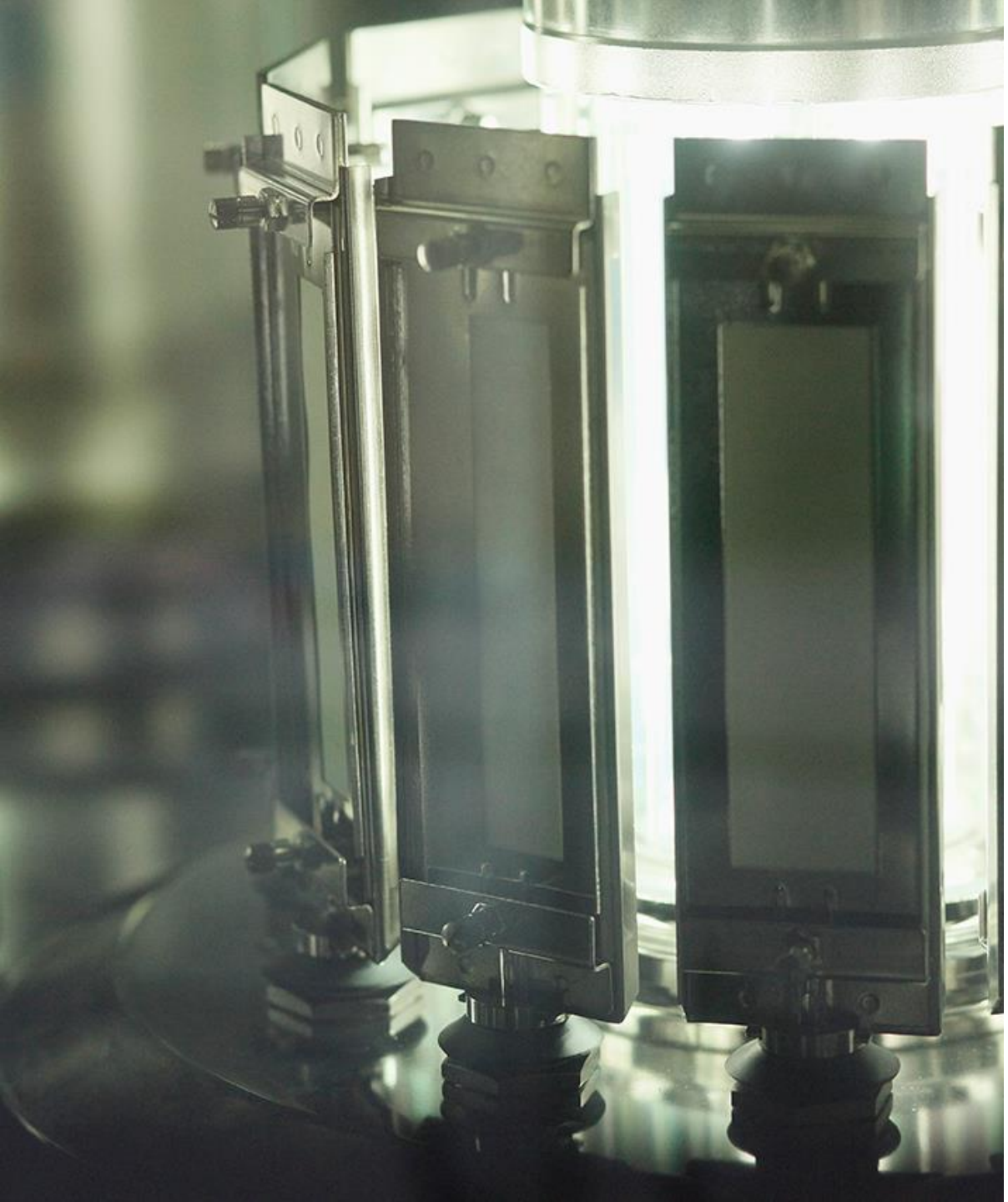
WRe finish performance trial



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IMPACT ON THE SEAM



Weathering test

- results by Hohenstein Laboratories confirm: **Outdoor-Pro** performs excellent in the weathering test
- examination according to DIN EN ISO 12402-7 contains artificial weathering according to ISO 4892-1 and ISO 4892-2
- contains artificial weathering
  - simulation of the influences of various weather conditions (insolation, rain, fog)
  - simulation of daytime and nighttime
  - cold storage at -30°C
- test duration: approx. 300 h
- test criteria
  - maximum tensile force
  - colour fastness

Light fastness DIN EN ISO 105-B06 cond. 3

- exposure tests after DIN EN ISO 105-B06 cond. 3 (“Fakra-Test”)
  - describes the resistance of the dye to the simultaneous action of artificial light (which corresponds to natural daylight) and heat

- tested 1, 3 and 5 exposure cycles (Fakra)

- one exposure cycle (Fakra) corresponds to approx. 60h

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Light fastness

Standard continuous filament

1 cycle ~ 60 hours



3 cycles ~ 180 hours



5 cycles ~ 300 hours



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Summary

- mechanical performance fully aligned with high tenacity Polyester continuous filament
- it performs extremely well on all kind of sewing machines
  - Multidirectional sewing units
  - 2-needle-lock-stitch machines
  - and zigzag seams
- PFC-free – eco-friendly - water-repellent finish as a standard
- designers will love it’s long-lasting color brilliance and wide color range



➡ **Outdoor-Pro is the perfect product for any outdoor application**

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THANK YOU
FOR YOUR INTEREST IN OUTDOOR-PRO

If you do have questions don‘t hesitate to ask your contact at AMANN