

AMANN  
GROUP

Intelligent threads

# OUTDOOR APPLICATIONS



Sun, wind and rain put outdoor textiles under a lot of environmental stress, which is often underestimated. The different climatic influences show that there is a need for products with technical characteristics that remain unchanged after many years of exposure. Outdoor-Pro, Serabond and Gore® Tenara® offer excellent UV light and weather-proof characteristics as well as a high-tech performance profile against abrasion and tensile stress.

## WEATHERING TEST ACCORDING TO ISO 4892-1 AND 4892-2

The results by Hohenstein Laboratories confirm: **Outdoor-Pro** and **Serabond** perform excellently in the weathering test.

- Examination according to DIN EN ISO 12402-7 contains artificial weathering according to ISO 4892-1 and ISO 4892-2
- Simulation of the influences of various weather conditions (insolation, rain, fog), as well as simulation of daytime and nighttime
- Test duration: approx. 300 h, test objects: all relevant sizes
- Test criteria: maximum tensile force, loop strength, colour fastness
- Furthermore, Outdoor-Pro has succeeded in cold storage at -30°C

## GENERAL APPLICATION FIELDS:

- outdoor furniture
- outdoor shading systems
- outdoor protective equipment
- outdoor clothing and accessories

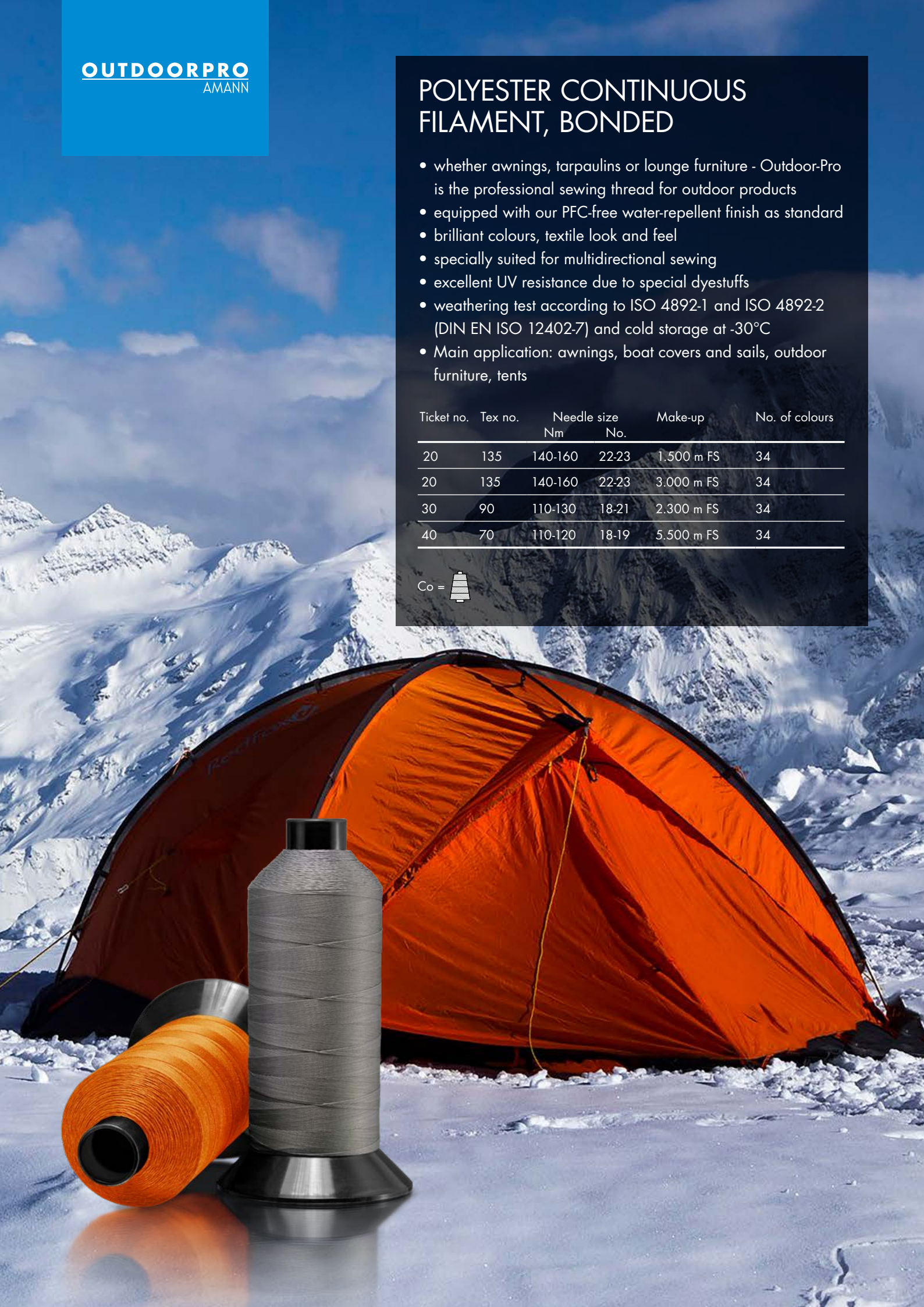


## POLYESTER CONTINUOUS FILAMENT, BONDED

- whether awnings, tarpaulins or lounge furniture - Outdoor-Pro is the professional sewing thread for outdoor products
- equipped with our PFC-free water-repellent finish as standard
- brilliant colours, textile look and feel
- specially suited for multidirectional sewing
- excellent UV resistance due to special dyestuffs
- weathering test according to ISO 4892-1 and ISO 4892-2 (DIN EN ISO 12402-7) and cold storage at -30°C
- Main application: awnings, boat covers and sails, outdoor furniture, tents

Ticket no.	Tex no.	Needle size		Make-up	No. of colours
		Nm	No.		
20	135	140-160	22-23	1.500 m FS	34
20	135	140-160	22-23	3.000 m FS	34
30	90	110-130	18-21	2.300 m FS	34
40	70	110-120	18-19	5.500 m FS	34


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## POLYESTER CONTINUOUS FILAMENT, BONDED

- high-performance bonded special sewing thread for outdoor applications
- extremely durable
- resistant to untwisting and therefore suited for multidirectional sewing
- outstanding UV resistance due to special dyestuffs
- weathering test according to ISO 4892-1 and ISO 4892-2
- Main application: sails, tents, awnings, boat covers, tarpaulins

Ticket no.	Tex no.	Needle size Nm	Needle size No.	Make-up	No. of colours
6	500	240-260	27-28	1.700 m FS	1
9	350	210-240	26-27	1.700 m FS	12
10	270	190-220	25-26	1.400 m FS	2
12	240	180-200	24-25	1.800 m FS	12
15	210	170-190	24-25	2.400 m FS	12
18	150	150-170	23-24	2.600 m FS	12
20	135	130-150	21-23	1.600 m FS 3.200 m FS	34 on request
25	105	120-140	19-22	3.000 m FS	12
30	90	110-130	18-21	2.300 m FS	34
40	70	90-120	14-19	4.600 m FS	16
60	45	80-100	12-16	5.000 m FS	16

FS/KS = 




GORE®  
TENARA®

## ePTFE (EXPANDED POLYTETRAFLUORETHYLENE) TAPE

- special sewing thread with excellent UV and weather protection with 15 years warranty
- designed for high speed sewing
- also available in transparent colour
- will not fade, stain or discolour
- resistant to UV radiation in sunlight, mould, mildew, acid rain, cleaning solutions, salt water and industrial pollutants
- Main application: sails, tents, awnings, boat covers, tarpaulins, artificial turf, bouncy castles

Ticket no.	Tex no.	Needle size Nm	No.	Make-up	No. of colours
HTR	270	110-140	18-22	1.050 m FS	11
TR	150	100-120	16-19	1.750 m FS	12
LTR	110	90-110	14-18	2.100 m FS	1

FS/KS = 



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Our management systems are certified according to:

