

# Product data sheet

**OUTDOORPRO**  
AMANN

## Polyester continuous filament, bonded

- whether awnings, boat covers or outdoor furniture - Outdoor-Pro is the ideal sewing thread for outdoor products
- 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 according to ISO 4892-1 and ISO 4892-2 (DIN EN ISO 12402-7) and cold storage at -30°C



## Technical data:

Ticket no.	Tex no.	Linear density (dtex) (DIN EN ISO 2060)	Linear density (Nm) (DIN EN ISO 2060)	Breaking force (cN) (DIN EN ISO 2062)	Elongation at break (%) (DIN EN ISO 2062)	Needle size Nm	Needle size No.
10	270	1169 * 3	9 / 3	18500 (41.6lbs.)	27	200-220	25-26
15	210	811 * 3	12 / 3	12500 (28.1lbs.)	22	180-200	24-25
20	135	572 * 3	17 / 3	9150 (20.5lbs.)	21	140-160	22-23
30	90	350 * 3	29 / 3	5350 (12lbs.)	22	110-130	18-21
40	70	285 * 3	35 / 3	4500 (10lbs.)	23	110-120	18-19

## Fastness properties:

Colour fastness to artificial light (ISO 105 B06)	≥ 4
Colour fastness to rubbing 1) dry (ISO 105 X 12)	≥ 4
Colour fastness to rubbing 2) wet (ISO 105 X 12)	≥ 4
Colour fastness to washing 60°C (ISO 105-C06 C2S)	≥ 4
Colour fastness to water (ISO 105 E 01)	≥ 5
Colour fastness to sea water (ISO 105-E02)	≥ 4-5

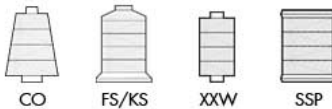
## Thermal properties:

- Melting point : ~ 250-260 °C

## Article assortment:

Ticket no.	Tex no.	Finish	Article no.	Make-up	Spool type	No. of colours
10	270	WRe	2161000	3.100 yd	FS	34
15	210	WRe	2161500	2.000 yd	FS	34
15	210	WRe	2161501	4.150 yd	FS	34
20	135	WRe	2162000	3.000 yd	FS	34
20	135	WRe	2162001	6.800 yd	FS	34
30	90	WRe	2163000	2.500 yd	FS	34
30	90	WRe	2163001	5.000 yd	FS	34
30	90	WRe	2163002	10.200 yd	FS	34
40	70	WRe	2164000	6.000 yd	FS	34

Legend:



## Main application:

- Awnings
- Tents
- Outdoor furniture
- Boat covers and sails



## Further application:

- Shoes & Accessories

## Certifications and special testings:



- Examination according to DIN EN ISO 12402-7 - Successful weathering tests according to ISO 4892-1 and 4892-2 and cold storage at -30°C