

Product data sheet

Silver-tech

Silver coated Polyamide / Polyester hybrid thread

- special sewing and embroidery thread with a silver coating
- for conductive seams and surfaces
- textile electrodes as sensors and actuators
- for seam positions that require antimicrobial characteristics
- no cell damaging effect in the Cytotoxicity Test according to DIN EN ISO 10993-5



Technical data:

Ticket no.	Tex no.	Linear density (dtex) (DIN EN ISO 2060)	Linear density (Nm) (DIN EN ISO 2060)	Optical Diameter	Breaking force (cN) (DIN EN ISO 2062)	Elongation at break (%) (DIN EN ISO 2062)	Needle size Nm	Needle size No.	Resistance
30	96	320 * 3	31 / 3	0,40 mm	2900	20	120-130	19-21	< 85 Ω/m
50	62	210 * 3	48 / 3	0,36 mm	1930	20	90-100	14-16	< 150 Ω/m
120	28	93 * 3	108 / 3	0,23 mm	1260	16	75-90	11-14	< 530 Ω/m

Note:

Environmental conditions such as temperature and humidity, the use of cleaning agents and mechanical stress have an influence on electrical conductivity.

Thermal properties:

- Melting point: ~ 250-260°C

Care labels:



The anti-microbial properties aren't influenced by chlorine bleaching. The conductivity reduces successively after multiple washing cycles. To reduce mechanical stress during washing process the use of laundry bag is highly recommended. Use only mild detergent. No bleaching agents or optical brighteners!

Article assortment:

Ticket no.	Tex no.	Embroidery ticket no.	Article no.	Make-up	Spool type	No. of colours
30	96	-	3823	500 m	FS	1
50	62	15	3824	1.500 m	FS	1
120	28	40	3825	2.500 m	FS	1

Available colour no.: 1000 = raw, silver-grey due to the silver content.

Due to the silver content and oxidation processes, the grey colour will get slightly darker over the time.

Main application:

- Smart textiles
- Medtech



Certifications and special testings:



- Silver-tech has been certified to biological safety according to DIN EN ISO 10993-5. There is no cell damaging effect in the cytotoxicity test.

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