

Intrinsically
antimicrobial yarns



Antbac

by

ANTEX

Continuous filament yarns with antimicrobial properties resulting from the incorporation of silver ions into their structure.

Unlike a surface treatment performed during the finishing process, this antibacterial property is intrinsic.

Antibacterial yarns are available in different synthetic polymers such as polyester, polyamide and polypropylene.

MAIN FEATURES



Reduces odour formation through antimicrobial activity

Special cross-sections available to promote moisture management and comfort



Intrinsic properties. Sustainable process
Properties added during the extrusion process



In accordance with REACH and Oeko-Tex
Sustainable line available based on recycled polymers



Easy Care. Synthetic polymers require shorter washing and drying cycles, reducing water and energy consumption
Creates more hygienic surfaces by reducing potential bacterial and germ growth

POTENTIAL APPLICATIONS

Sportswear – Medical
Home textiles – Technical textiles
Workwear – Automotive

PRODUCT APPLICATIONS

The Antibacterial range includes a great variety of products to suit the requirements of the customer:

- Textured yarns (ATY and DTY)
- Twisted yarns
- Package dyeing
- Dope dyeing
- Multifilament and microfilament versions
- Ynviron recycled polymers

Due to the many applications of antibacterial yarns, the results, information and recommendations given are purely for guidance purposes. We recommend performing trials and tests for the final applications for which each item is intended.

TESTED BY (EXTERNAL ACCREDITED LAB)

Antibacterial activity

BACTERIA	AATCC TM100
Staphylococcus aureus ATCC 6538	>99% reduction
Klebsiella pneumoniae ATCC 4352	

% reduction after 24hr contact time

BACTERIA	ISO 20743:2013
Staphylococcus aureus ATCC 6538	5.14
Klebsiella pneumoniae ATCC 4352	4.53

Assesment criteria

According to DIN EN ISO 20743:2013. Appendix F

Antibacterial activity	Growth reduction efficacy [log cfu]
no	< 0,5
slight	≥ 0,5 to 2
significant	≥ 2 to 3
strong	≥ 3

Note: A certificate of the antibacterial activity can only be granted if significant efficacy is proven –independently of the antibacterial graduation.

There is **strong antibacterial activity** with the test strains staphylococcus aureus ATCC 6538 and klebsiella pneumoniae ATCC 4352 under the given test conditions for the tested samples, calculated with the control material (untreated pes).



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