



**PULCRA TEC®**  
RANGE

**Pulcra** Chemicals  
*The solution specialist*

# PULCRA TEC® RANGE

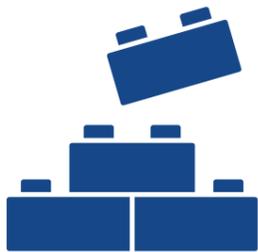
The requirements and the demand for non-fluorinated finishes is growing. PULCRA TEC® range of durable water repellents ensures that textile mills and brands are meeting the required performance levels and at the same time staying ahead of tightening regulatory restrictions.

PULCRA TEC® durable water repellents combining cutting-edge chemistry with eco-conscious principles. The range maximizes the benefits of performance, durability and sustainability.

## MODULAR SYSTEM - INTELLIGENT PROTECTION

Every PULCRA TEC® product boasts its own set of strengths. By intelligently combining these modules, even the most demanding performance requirements for outdoor apparel,

workwear, sportswear, all kinds of technical textiles and home textiles can be fulfilled.



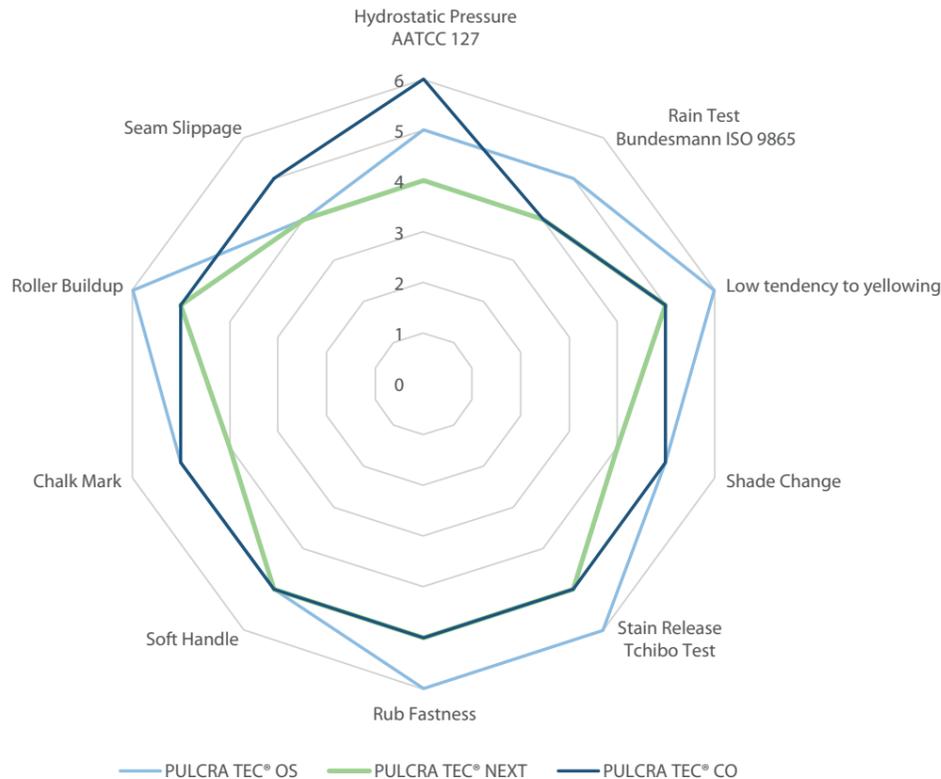
### PULCRA TEC® modules:

- Can be used alone or in smart combinations
- Easy to apply, using traditional wet finishing processes
- Enable to optimize the performance to cost ratio for finishing recipes
- Can improve the sustainability profile
- Offer flexibility in adapting to changing market demands or customer preferences
- Potentially reduce the inventory of a high number of specialty products

## PULCRA TEC® SECONDARY EFFECTS

Secondary effects such as hydrostatic pressure, soft handle, shade change, and rub fastness can be crucial factors to consider, alongside the primary effect of water repellency.

PULCRA TEC® Modular System enables fabric designers and textile mills to achieve the desired level of water repellency while maintaining or enhancing other important properties for the textile.



# PULCRA TEC® RANGE – OVERVIEW

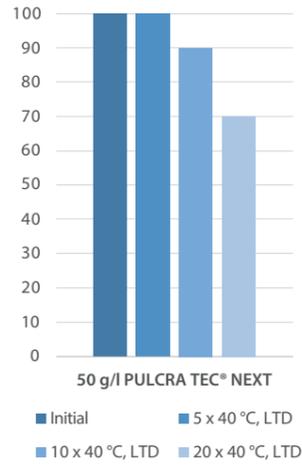
PRODUCT NAME	VALUE	IONIC NATURE	WATER REPEL	STAIN RELEASE	RAIN TEST	HYDROSTATIC HEAD	WASH DURABILITY
<b>DURABLE WATER REPELLENTS</b>							
<b>PULCRA TEC® NEXT</b>	Superior performance on synthetic fibers and their blends with cotton	cationic	●●●	●●	●●	●●	●●●
<b>PULCRA TEC® OS</b>	Universal, high performance, high efficiency bio-based content > 50%,	cationic	●●●	●●●	●●●	●●●	●●●
<b>PULCRA TEC® CO</b>	Repel + release, cellulosic fibers and blends with synthetics	weakly cationic	●●●	●●●	●●	●●	●●●
<b>PULCRA TEC® BASE</b>	Basic module for tailored recipes	cationic	●●	●	●	●	●●
<b>CROSSLINKING AGENTS</b>							
<b>PULCRA TEC® X-G3</b>	Boosting the durability of repellent finishes, free from isocyanate	weakly cationic	-	-	-	-	●●●
<b>REPELLAN® XL-W</b>	Boosting the durability of repellent finishes, economical, butanone oxime-free	non-ionic	-	-	-	-	●●●
<b>WATER REPELLENTS</b>							
<b>REPELLAN® T</b>	Excellent effects, not wash durable, for medical use	cationic	●●●	●	●●	●●	●
<b>REPELLAN® BD</b>	Excellent effects, not wash durable	cationic	●●●	●	●●	●●	●

## PRODUCT FEATURES – PULCRA TEC®

- Excellent wash-durable water repellency
- Lowest interference of fabric quality, such as handle, chalk marking, yellowing, color change
- Reliable running properties
- Low-Curing properties offer economical and energy-saving options, as well as lower thermal stress on materials and less risk of color change
- High abrasion resistance
- Free from poly- and perfluoroalkyl substances (PFAS) / free from perfluorinated compounds (PFCs)

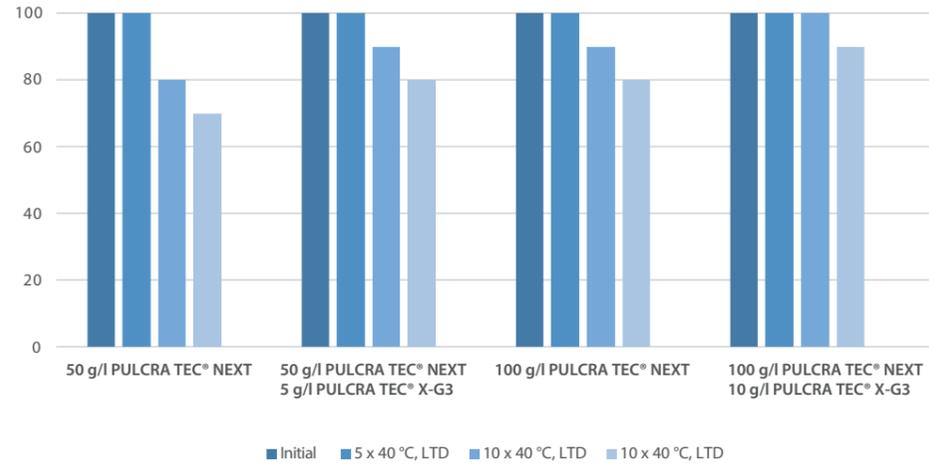
## PULCRA TEC® NEXT SPRAY TESTING (AATCC 22-2005)

### POLYESTER



- tested on 100% polyester woven fabrics
- wet pick-up 70%

### CO/PES

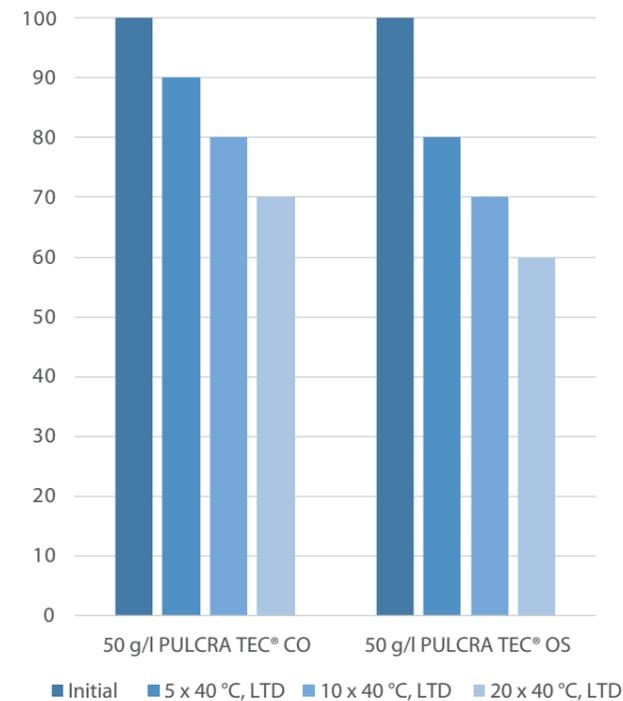


- tested on cotton/polyester woven fabrics
- PULCRA TEC® X-G3 added to boost the wash durability
- wet pick-up 100%

PULCRA TEC® NEXT is an exemplary performing, durable water repellent, developed for textiles of polyester and blends with cotton, using a smart formulation of best available technology.

## PULCRA TEC® CO SPRAY TESTING (AATCC 22-2005)

### COTTON



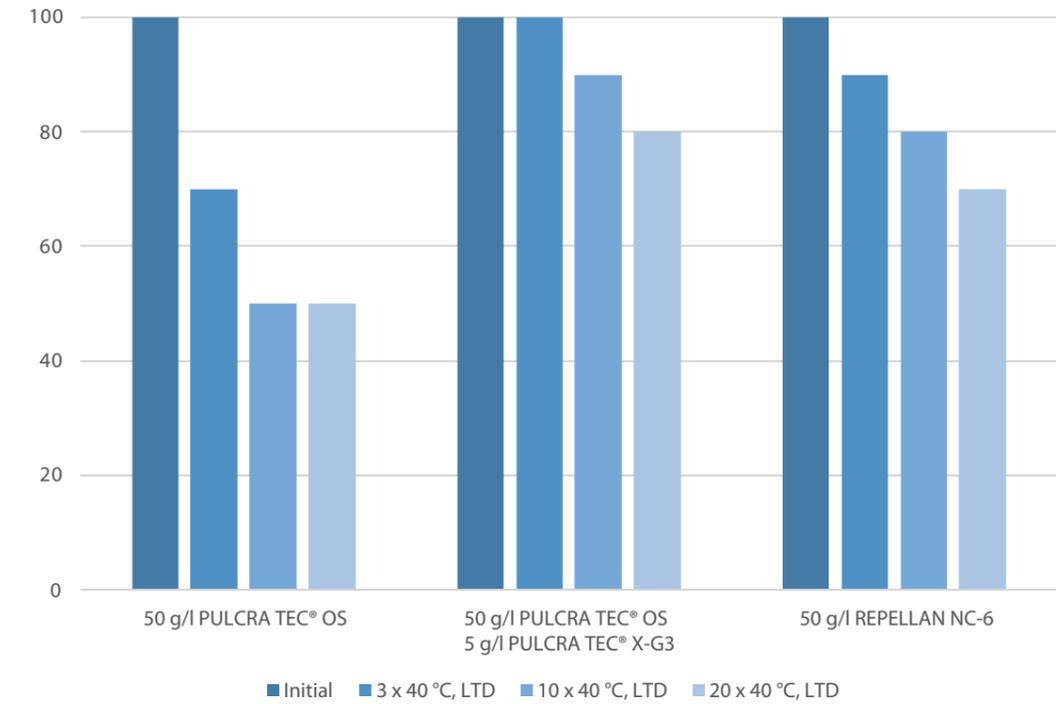
- tested on 100% cotton
- wet pick-up 70%

PULCRA TEC® CO is an excellent durable water repellent, developed for textiles of cotton and blends with synthetics. It is designed to offer both water repel and stain release functionalities.

## PULCRA TEC® OS – VS. FLUORO-CHEMICAL REPELLAN® NC-6

SPRAY TESTING (AATCC 22-2005)

### POLYESTER



- tested on 100% polyester woven fabrics
- wet pick-up 70%

PULCRA TEC® OS is a robust, high performing and highly efficient durable water repellent, developed for all kinds of fibers/fabrics, with a bio-based carbon content of > 50% (ASTM D6866). PULCRA TEC® OS ensures a high repellency with significantly lower chemical add-on.

## CROSSLINKERS - BOOSTING PERFORMANCE

### PULCRA TEC® X-G3

PULCRA TEC® X-G3 is a new generation, sustainable and isocyanate-free crosslinker which has been developed to reinforce the performance of water repellent finishes, particularly on their effect durability.

This technology is free from isocyanates, ensuring an environmentally friendly approach to water repellency and staying ahead of tightening regulatory restrictions.

PULCRA TEC® X-G3 is highly effective and compatible with all fibers and all DWR technologies, while improving the sustainability profile of the finishing recipe.

### REPELLAN® XL-W

REPELLAN® XL-W is a highly effective butanone-oxime free crosslinker based on blocked isocyanate technology.

It offers a high level of performance in reinforcing the repellency effects and is compatible with all fibers and all DWR technologies. REPELLAN® XL-W can help optimizing the performance to cost ratio for finishing recipes.

**Like to find out more?**  
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Die hierin angegebenen Hinweise entsprechen praktischen Erfahrungen. Aufgrund von unterschiedlichen örtlichen Begebenheiten können sie nicht als vollständig betrachtet werden, sodass jegliche Haftung – auch bei Ansprüchen Dritter – ausgeschlossen ist. Pulcra Tec-6-A4-04-24-EN



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