

WATER REPELLENTS

Stay Dry • Stay Protected • Stay Ahead



- ✓ **Durable water repellency**
- ✓ **New fluorine-free variants available**
- ✓ **Retains fabric breathability**
- ✓ **Suitable for various fabric types**

Water repellent chemicals, or hydrophobic agents, are applied to textiles to prevent water absorption by modifying fabric surface properties. These treatments create a low surface energy barrier that causes water to bead up and roll off, rather than soaking in—enhancing both durability and comfort.

Effectiveness is measured by contact angle (CA), with hydrophobic surfaces showing $CA > 90^\circ$ and superhydrophobic surfaces exceeding 150° . At QUEST, we focus on developing high-performance, eco-friendly water-repellent solutions that deliver both cost efficiency and reduced environmental impact.

Questrepel OWR



CHEMISTRY

Fluorochemicals



FEATURES

- Provides excellent water repellency on natural, synthetic & blended fabrics
- Durable finish withstands multiple dry-cleaning and wash cycles
- Offers mild softening on polyester and nylon
- Maintains original colour fastness properties
- Eco-friendly formulation based on C6 chemistry



APPLICATIONS & OTHER USES

Applicable by:

Padding, dipping & spraying methods.

By Pad [60 – 80% w.p.], Dry 100 – 105°C and Cure 160°C for 2-3 mins 10-40 g/l **Questrepel OWR**

5 – 7 g/l **Questrepel XAN** (Fluorocarbon extender, Optional) at pH 4.5-5



TECH. SPECS

- Creamish Translucent Emulsion ● Non-Ionic ● Fluoro Chemical

Questrepel XC OWR



CHEMISTRY

Modified Fluorochemicals



FEATURES

- Excellent water/oil repellency on natural, synthetic & blended fabrics
- Durable finish stable to several cycles of dry-cleaning & laundering
- Soil & Stain release property.
- Mild softening effect of polyester & nylon fabrics
- No detrimental influence on colour fastness properties
- Stain proof finish resistant to staining by hydrophilic & oleophilic soils
- Eco-friendly formulation based on C6 chemistry



APPLICATIONS & OTHER USES

Applicable by:

Padding, dipping & spraying methods.

By Pad [60 – 80% w.p.], dry 100 – 105°C and cure 160°C for 2-3 mins

30-50 g/l **Questrepel XC OWR**

5 – 7 g/l **Questrepel XAN** (Fluorocarbon extender, Optional) at pH 4.5-5



TECH. SPECS

- Creamish Translucent Emulsion ● Non-Ionic ● Fluoro Chemical

Questrepel 303

** ZDHC certified



CHEMISTRY

Nano dispersion of specialty polymer



FEATURES

- Fluoro carbon- and flammable liquid-free formulation
- Provides durable water repellence on natural, synthetic, and blended fabrics
- Suitable for hydrophobizing treatment of porous or non-porous, absorbent, or non-absorbent substrates
- Enhances gloss and lustre noticeably
- Delivers high spray rating with minimal water pick-up
- Maintains performance through multiple home laundering & dry-cleaning cycles
- Questrepel 303, in combination with other additives can achieve other effects such as resistance to environmental influences (such as heat, sunlight, particularly UV radiation, oxidizing agents, acidic environments), and particularly finishing effects in textiles such as colour protection, fibre resistance, crease-free, soil repellence, shrink protection, flame retardance, moth protection, anti-felt finish or antimicrobial finish
- Leaves a soft, pleasant feel on treated substrates



APPLICATIONS & OTHER USES

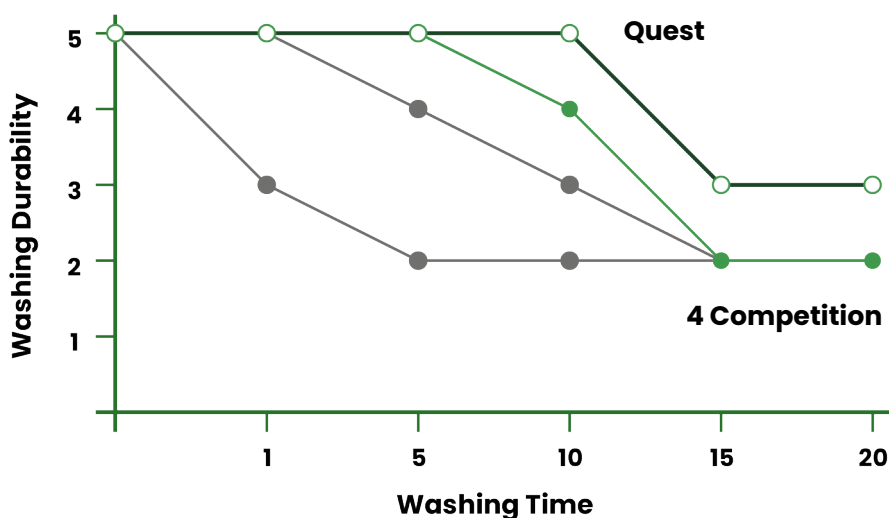
- Quest Repel 303 applied as a single component or in combination with other products by the exhaust or by padding methods for polyester, cotton, nylon, wool, silk and their blends
- It is ideal for impregnating natural or synthetic textiles in a washing machine. It is recommended to apply the product in the rinse cycle
- The impregnation effect is reached without loss of breathability of the fabrics
- Recommended application concentration:** 70 - 150 g / rinse cycle
- Questrepel 303 is well suited for hydrophobizing most materials such as textiles, leather, wood, paper, etc. when diluted with water to an active content of 1 - 5 %



TECH. SPECS

- Clear to hazy liquidA
- Non-Ionic
- Nano Dispersion of Speciality Polymer
- Miscible in water

Wash Durability Graph

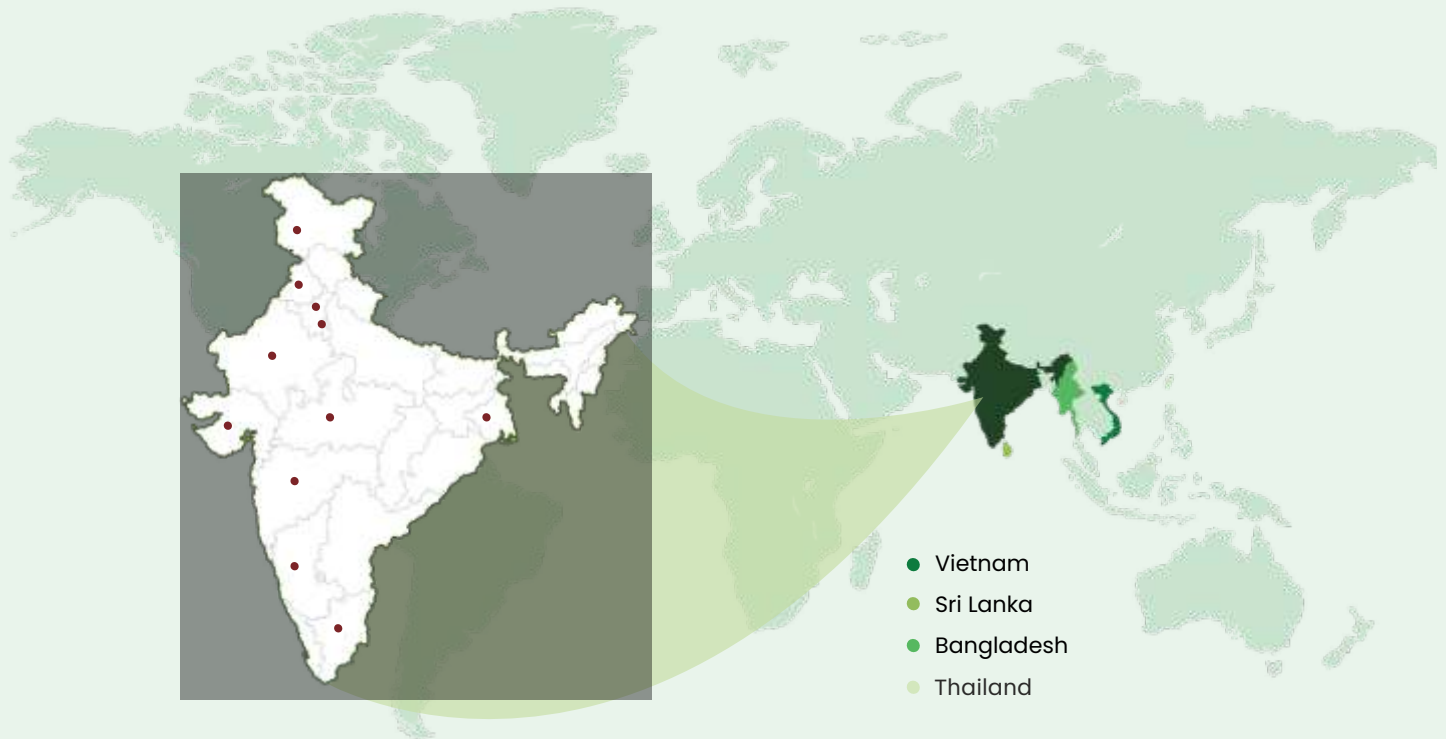


Quest range maintains repellency over 50+ washes



- Appearance
- Ionic Nature
- Constitution
- Miscibility

Our Global Footprint



Disclaimer

The information given herein and otherwise supplied to users is based on our general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors, which are outside our knowledge and control, which can affect the use of these products, we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.



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Quest Performance Additives (India) Pvt Ltd

📍 L-89 MIDC, Taloja Industrial Area, Tal. Panvel, Dist. Raigad - 410208.
✉ customercare@questperformance.in | 🌐 www.questperformance.in
☎ 022 - 46086497, +91 - 8850195587, +91 - 9833413215