

RANGE OF HYDROPHILICS

A Game Changer – Here's Why!



The Chemistry Behind Superior Finish



Exceptional Hydrophilicity

Enhances water absorption



Shear Stable & Durable

Works effectively in machines
with high turbulence



Non-Yellowing & pH Stable

Maintains brightness & stability
under diverse conditions



Soft, Voluminous Finish

Imparts a luxurious hand feel
to fabrics



Versatile Application

Suitable for cotton, polyester
blends, and cellulosic fibers



User-Friendly & Green Chemistry

Easily applicable in both exhaust
& padding processes
Ecologically acceptable & safe

Quest range of softeners are specifically designed to provide hydrophilicity coupled with excellent softness, & stability across different fabric types.

Unlike conventional finishing agents, it ensures superior moisture management without affecting the original shade of the dye.



Experience the Questvantage!

Feature	Conventional Softeners	Quest Range of Hydrophilics
Hydrophilicity	✗ Short lived effect	✓ Retains Hydrophilicity even on storage
Non - Yellowing	✗ Prone to yellowing & discoloration	✓ Retains original whiteness & shade of the dye
Shear Stability	✗ Limited performance in high turbulence	✓ Ideal for high turbulence machine
Hand Feel	✗ Often flat & less plush feel	✓ Soft & Voluminous
pH & Temperature Stability	✗ Sensitive to most environmental changes	✓ Exhibits Consistency (pH 5-6)

Performance Benefits



Enhanced Moisture Management

Fast water **absorption & retention**, enhancing wearer comfort, being **safe & irritation free**

Suitable for towels, sports & gym wear, intimate apparel, knitwear, bath mats, baby products, medical textile, cleaning cloths, sanitary products



Application Versatility

Can be applied by **padding & exhaustion processes**

Blends well with **other hydrophilic finishing agents**

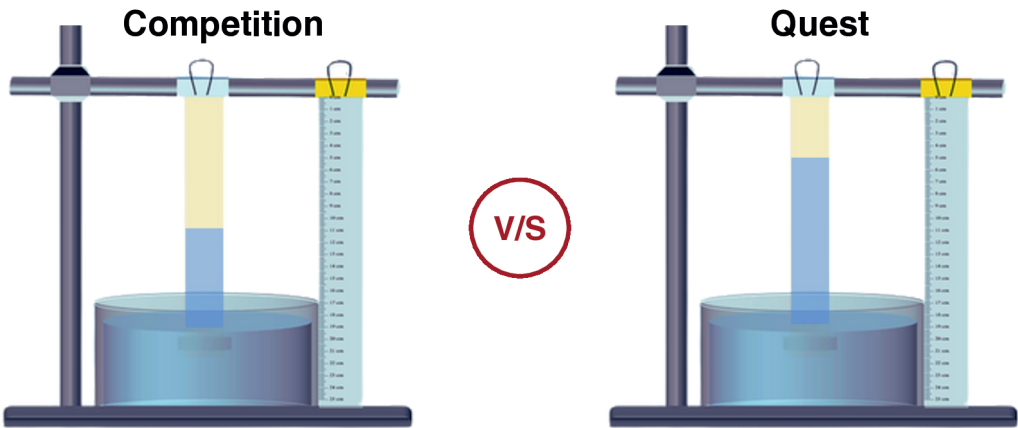
**Pre-trials necessary*

Application Guide

 Process	 Dosage	 Conditions
Padding	10-50 g/L	pH 5.0-6.0, followed by drying & curing
Exhaustion	1-5%	pH 5.0-6.0, 20-30 min at 40-50°C

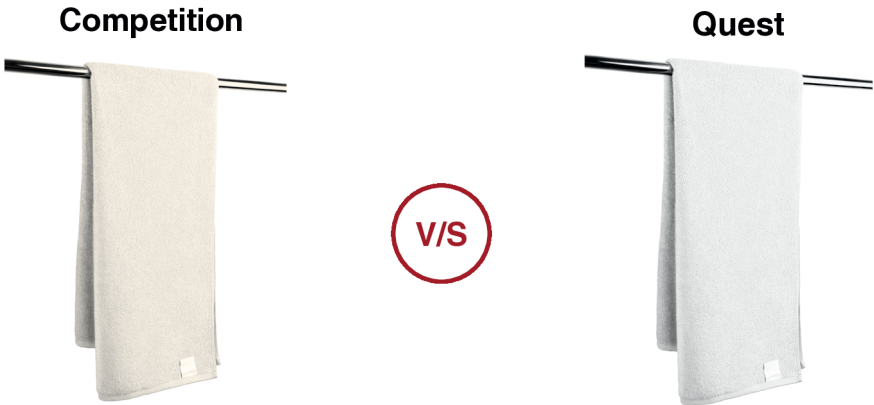
**Application levels depend on the type of fabric and the desired finish*

Wicking Test



Comparison of wicking height for Quest treated fabric vs competition

Non-Yellowing Effect



Stability comparison of Quest treated fabric vs competition under thermal exposure

Quest Range of Hydrophillics

**The properties imparted show practically no change with aging or extreme drying conditions*

Product	Description	Effective on	Attributes
Questfin LM 10	Specialty Quat	Cotton knits and terry towels Rayon Blends with polyester	✓ Soft lubricated handfeel ✓ Excellent surface smoothness with suppleness ✓ Instant hydrophilicity and non- yellowing finish
Questfin RWS	Fatty acid ester	Cotton knits and terry towels Rayon Blends with polyester	✓ Excellent hydrophilicity with inner softness ✓ Minimal effect on whiteness and shade change
Questfin SFC	Fatty acid derivative	Cotton knits and terry towels Rayon Blends with polyester	✓ Imparts soft handle with fullness ✓ Non yellowing finish ✓ Hydrophillic ✓ Resistant to thermal yellowing
Questfin HCP	Silicone co-polymer	Cotton knits and terry towels	✓ Non-yellowing durable finish ✓ Imparts smooth lubricated and voluminous handle ✓ Stable over wide pH and temperatures
Questfin QBH/ QBH Plus	Modified silicone co-polymer	Cotton knits and terry towels	✓ Soft premium voluminous handle with excellent surface smoothness ✓ Maintains absorptive properties even upon storage ✓ Increase elasticity and elastic recovery in Knits ✓ Improves sewability and abrasion resistance
Questfin TM	Hydrophillic co-polymer	Polyester and polyester rich blends	✓ Durable ✓ Antistatic and soil release for comfort finish on polyester and blends ✓ Reduces soil re-deposition ✓ Effective dye bath additive to reduce creasing
Questfin EXCEL	Modified hydrophillic co-polymer	Polyester and its blends with wool and lycra	✓ Exhibits quick drying property ✓ Premium durability, antistatic and soil release for comfort finish on polyester and blends ✓ Reduces soil re-deposition ✓ Effective dye bath additive to reduce creasing
Questfin LQX5	Hydrophillic block silicone	Cotton knits	✓ Balanced inner softness and surface smoothness ✓ Non-yellowing durable finish
Questfin Soft S	Silicone co-polymer	Cotton knits and terry towels	✓ Exhibits excellent inner surface and surface smoothness ✓ Stable over wide pH and temperatures ✓ Maintains absorptive properties even upon storage
Questfin LX Premium	Reactive silicone co-polymer	Cotton knits	✓ Balanced inner softness and surface smoothness ✓ Stable over wide pH and temperatures ✓ Non-yellowing durable finish



Upgrade your textile finishing with our range of high performing Hydrophilics. Contact us today for technical support & sample requests.



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