



# BIOPURE<sup>®</sup> HYDRO SOFT

## BIOPURE HS5 Coconut-based Hydrophilic Softener

BIOPURE HS5 is a coconut oil-based hydrophilic softener that is designed to impart exceptional penetrating softness, surface smoothness, and moisture wicking performance to textiles. This innovative softener enhances the comfort and functionality of textiles while also offering a sustainable and plant-based solution to conventional softener products.

Ideal for a wide range of applications, BIOPURE HS5 delivers consistent and reliable performance across various fabric and fiber-types. It is equivalent in softness and superior in moisture wicking performance compared to leading silicone softeners, ensuring that textiles achieve the desired feel and functionality while being environmentally responsible. BIOPURE HS5's ability to impart optimal softness, smoothness, and moisture wicking makes it uniquely capable in surpassing the comfort and performance-driven needs of the modern consumer that demands sustainable solutions. For more information, please consult the Technical Data Sheet.

### Technology Benefits

Excellent hand for cotton, linen, hemp, synthetics, and blends

Offers reliable moisture wicking for all fiber-types

Improves anti-static performance on polyester and nylon

Maintains fabric breathability, for a comfortable experience

Optimal runnability, allowing for uninterrupted production

Compatible with commonly used finishing auxiliaries, including optical brighteners and cross-linking agents

Contains 72% bio-based content per test method ASTM D6866

Certified bio-based technology per USDA BioPreferred Program

Does not contain siloxanes



ECO  
PASSPORT

Ø ZDHC



## Performance Features

Penetrating Softness  
Surface Smoothness  
Moisture Wicking

## Durability

30 Home Launderings

## Application Methods

Padding  
Exhaust  
Spray

## Optimal For All Fiber-Types

Cellulosic (Cotton, Hemp, Linen, Wool, etc.)  
Synthetic (Polyester, Nylon, etc.)  
Manmade Cellulosic (Viscose, Lyocell, etc.)  
Recycled & Blends

## Compliance

GOTS V7.0  
ZDHC Level 3  
OEKO-TEX EcoPassport  
USDA BioPreferred  
Dermatologist Tested

## How It Works

BIOPURE HS5 penetrates deep within the textile fiber, where it forms durable bonds. Its coconut oil-based fatty acid chains embed themselves within the fiber matrix through cationic bonding, interacting with hydroxyl groups, and covalent bonding that ensures strong fiber integration rather than just a surface coating. This increased affinity provides penetrating softness and moisture wicking performance that lasts through 30 washes.

## How To Verify Performance

Validated through standardized testing methods and practical, quantitative and qualitative, analytical methods.

**AATCC TM197:** Evaluates the ability of vertically aligned fabric to transport liquid along and/or through them, and is applicable to woven, knitted, or nonwoven fabrics.

## Marketing Support

Products treated with a BIOPURE technology and validated to meet performance requirements, are eligible to utilize our BIOPURE branded marketing materials.

Our in-house marketing team is available to provide support with brand positioning, claims language, and Point-Of-Sale materials such as custom hangtags.

