

Working with
Nature for a
Better
Cotton

FIBRE52™

A Revolutionary PFD and Dye Process for Cotton

BETTER FOR MILLS, BRANDS, AND THE WORLD

Fibre52 is a revolutionary PFD (Prepare for Dye) and dye process for cotton that **works with nature, not against it**, to produce a higher quality cotton than traditional cotton PFD and dye processes. It's also potentially more profitable for mills – without compromising standards.

The patent-pending Fibre52 technology uses bio-products to bleach and dye cotton. Fibre52's process is **plug 'n play** – working with your existing machinery. It's easily transferable and there are no additional capital costs.

And the savings are significant.

Environmentally, Fibre52 is an authentically green process that will reduce impact on land and water resources, when compared to the cotton PFD and dye processes currently used by most mills. And it does this **without additional cost** to mills or brands.

Plus, **Fibre52 takes less time**. The mills we've worked with have seen meaningful time savings on bleach and dyeing with Fibre52.

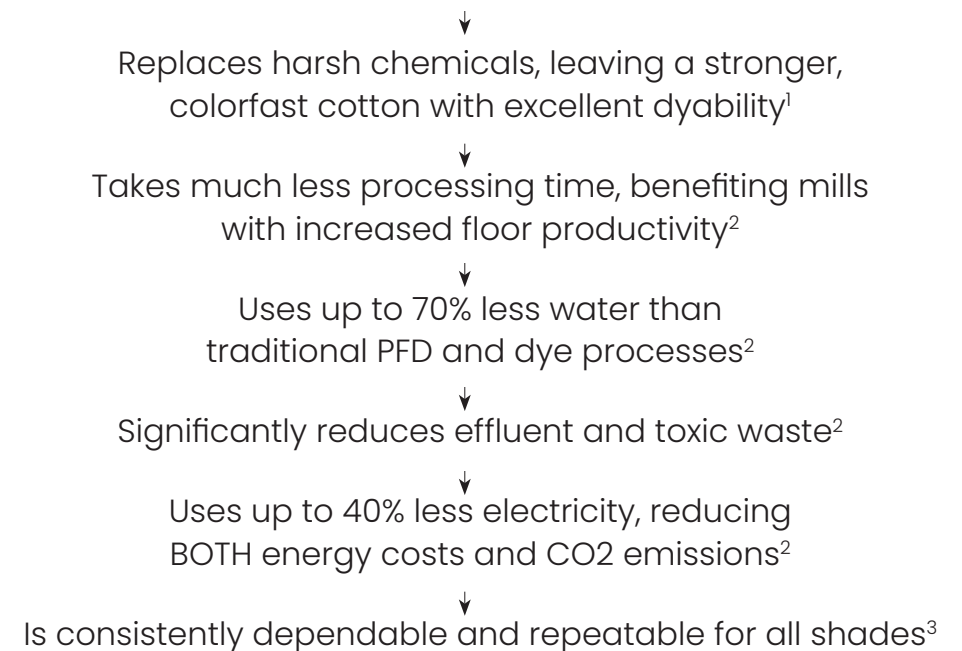
Introducing

FIBRE52™
ECO-Edge

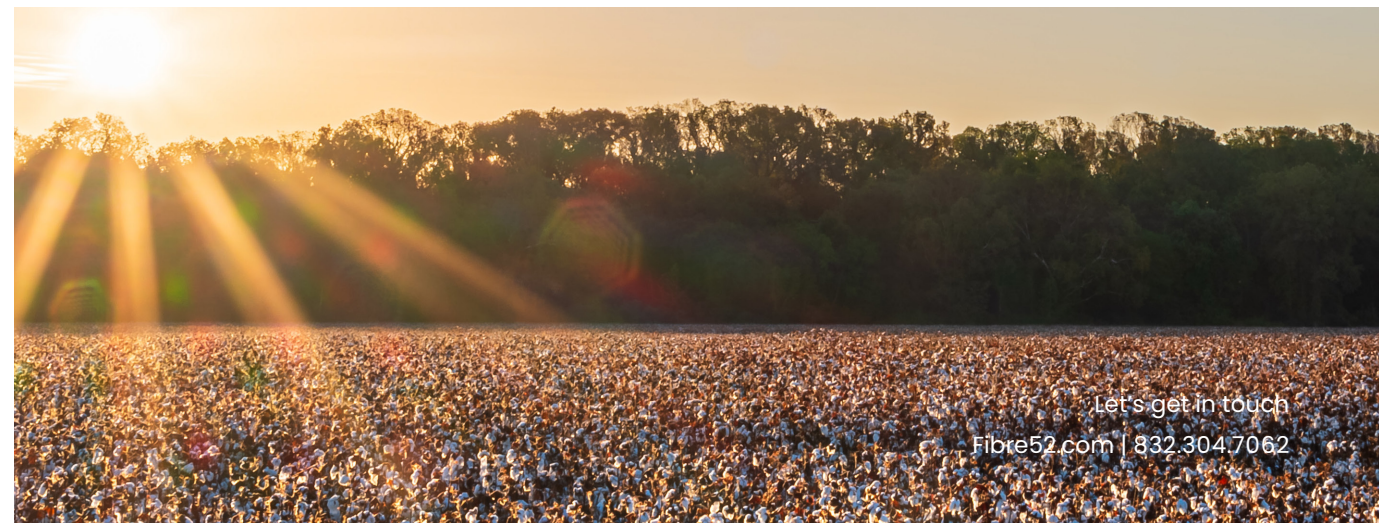


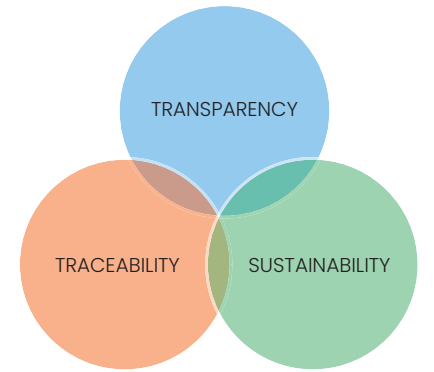
An untold story till now, Fibre52™ prepares cotton – *knit, woven, non-wovens or raw fiber* – for a perfect dye job at significant cost savings to both textile plants and the environment.

Evaluated at mills around the globe, the patent-pending Fibre52 PFD and Dye process:



1. AATCC TN61-2013e(2020)
2. Politecnico Di Torino LCA
3. AATCCTM15-2013e





The FIBRE52™ ECO-Edge

Brands will love this, and so will you.

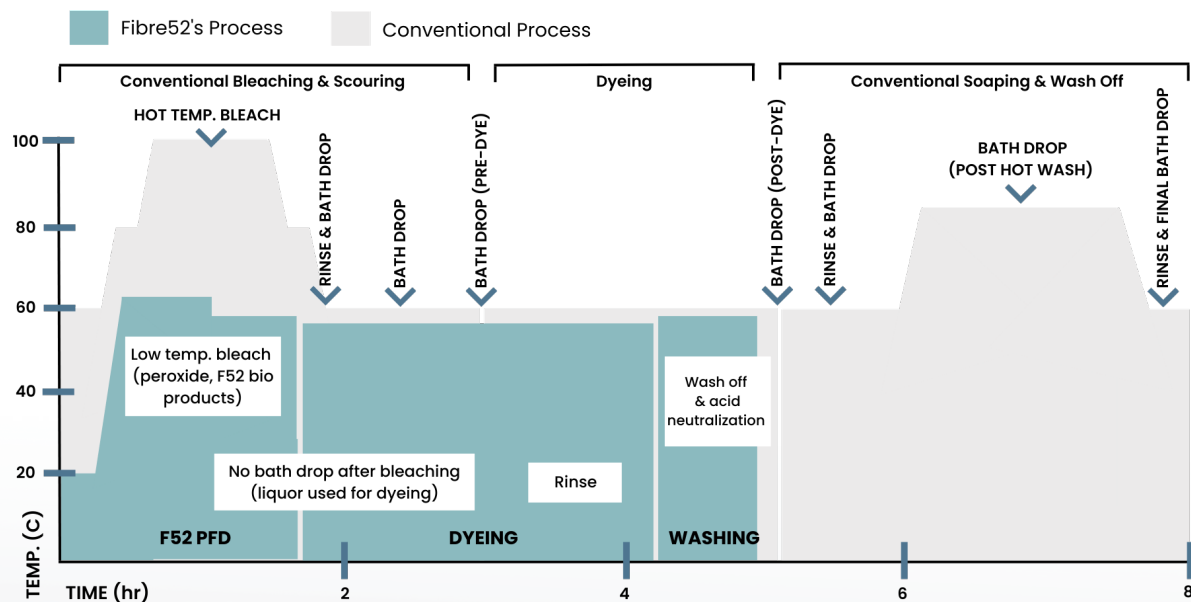


DELIVER ON SUSTAINABILITY CALLS

The global fashion industry is increasingly focused on sustainable, traceable, transparent supply chains and manufacturing processes that are safer for both workers and the planet.

Mills that use Fibre52 have an edge with brands searching for textile partners that can deliver verifiable sustainability stories, without increased cost.

Less Time, Less Water, More Sustainability



THE CHART ABOVE COMPARES FIBRE52™ WITH THE TRADITIONAL COTTON PFD PROCESS

The Fibre52 PFD & Dye process doesn't use PFAS or other forever chemicals and is safer for mill employees* - who no longer have to handle toxic chemicals. It also does not require additional capital investment and is fully compatible with all existing machinery.

PROCESS PARAMETERS	FIBRE52 PROCESS	CONVENTIONAL DYEING PROCESS
Time (hr.)	5	8
Bleach Temp (C)	65 C	90 - 100 C
Bath Drops	1 - 2	6 - 10

CHANGES IN GLOBAL INDUSTRIES

Major fashion and apparel brands are hiring sustainability managers to make sure their supply chain partners are playing by an entirely new set of sustainability rules when it comes to every stage of manufacturing. Fashion designers are beginning to include sustainability in the list of criteria they use when selecting materials. And consumers are demanding climate action from the brands they wear, love and connect with.

In the US, the Federal Trade Commission recently issued a new set of stringent green claim regulations and similar rules in the European Union are even tighter¹. Meanwhile, the list of global fashion writers and bloggers who are focused on sustainability is growing by the day.

1. <https://www.Gossy.co> | ZOFIA ZWIEGLINSKA | JAN 3, 2023



* PFAS are present throughout the global water supply and small amounts can occasionally be found in products. Fibre52 does not intentionally use nor add PFAS chemistries in its process.



Fibre52 Cotton has many of the same performance capabilities as synthetics and can potentially replace petroleum products in casual and performance market sectors.

Let's get in touch
Fibre52.com | 832.304.7062

WHY MILLS WANT THE FIBRE52™ ECO-EDGE

A BETTER OFFERING

Mills that use Fibre52 can provide higher end textile and apparel brands a supply chain partner that can authentically add to that brand's sustainability story.

COST COMPETITIVE

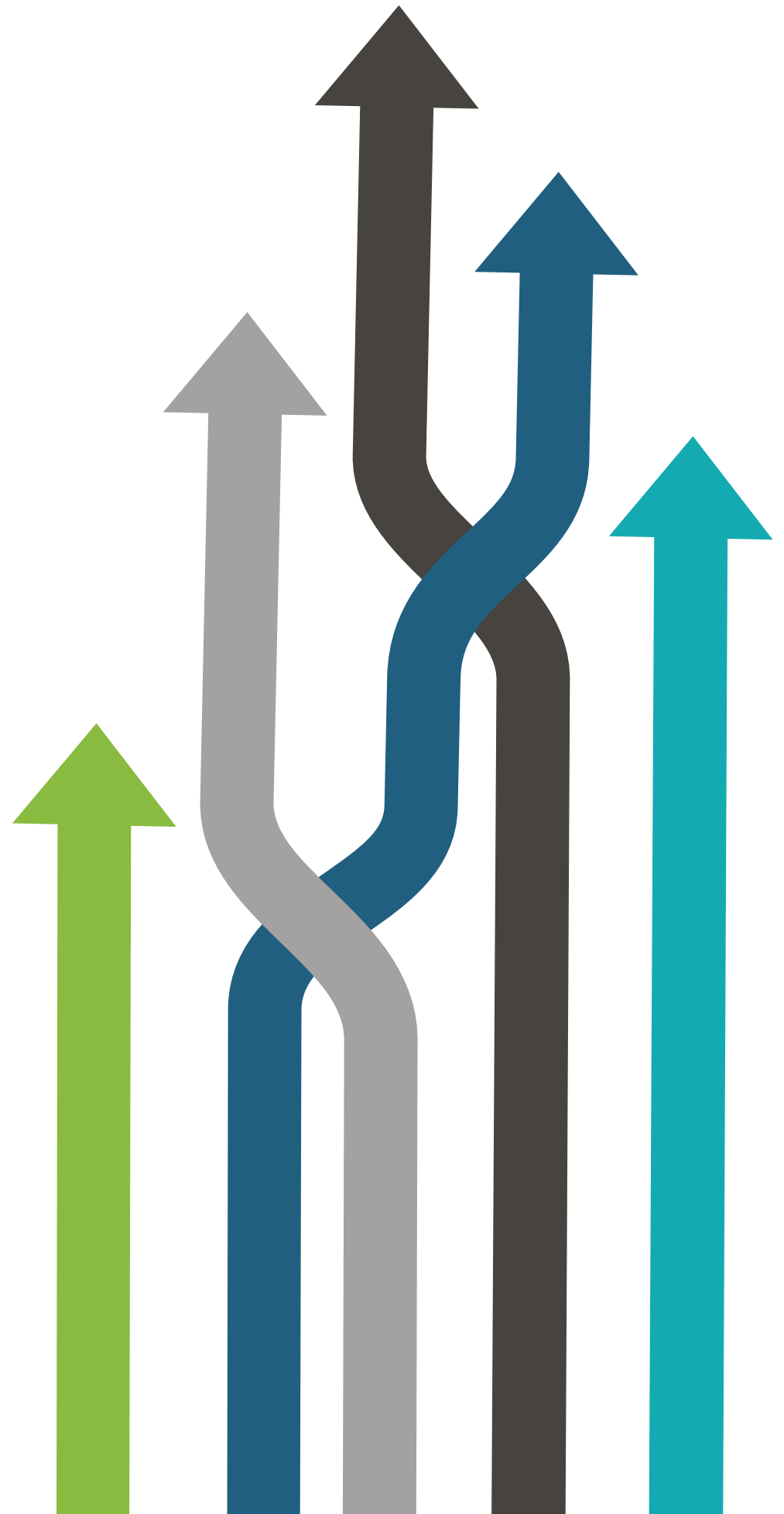
The mills can see cost savings in terms of lower water and energy costs, and less time and money managing toxic effluent. Mills can pass these costs along to their customers, or see higher profits, without raising their rates.

INCREASED MILL FLOOR PRODUCTIVITY AND PROFITABILITY

Fibre52 takes less time than the traditional PFD and dye process for cotton. This opens the plant floor to additional projects and profits at no additional cost in terms of machinery and labor.

APPEAL TO CURRENT MARKETING TRENDS

With Fibre52, mills can rest assured that Fibre52 is consistent with current industry sustainability certifications that mills and brands use in their marketing stories.



Up To
25%
INCREASE
THROUGHPUT

Up To
70%
REDUCTION
IN WATER

Up To
40%
REDUCTION
IN ELECTRICITY

Up To
75%
REDUCTION
IN GAS

Up To
25%
REDUCTION
IN COST

Up To
40%
REDUCTION
IN CO₂
EMISSIONS



BETTER FOR EVERYONE

Additional FIBRE52™ advantages for mills, their employees, the water and land resources where they operate, their communities, the brands they serve and the world at large, include:





FIBRE52™

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LEARN MORE
Fibre52.com