

FiberColors® by ARCHROMA

Archroma’s award-winning technology of creating warm shades from wool waste

Born from upcycled wool. Made for a more sustainable industry. FiberColors® transforms wool waste into warm shades. Engineered for cellulosics and their blends, this innovative range delivers high wet fastness through excellent fiber affinity and easily integrates into most well-established manufacturing processes. Whether you are designing casual wear, home textiles or denim, discover how FiberColors® can help you create inspiring collections while telling a powerful circularity story.

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111300de, Global, 2026

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FIBERCOLORS® / Our award-winning technology of creating warm shades from wool waste



/ TRANSFORMING WOOL WASTE INTO SOMETHING BEAUTIFUL

FIBERCOLORS® is our breakthrough dye synthesis technology which creates natural shades from waste fleeces, solving a problem for sheep farmers and advancing sustainability for apparel and home textile brands.

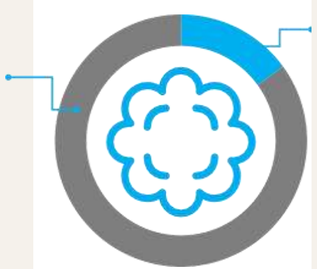


- FiberColors® dyes are synthesized with a minimum of 50% wool waste raw material
- It replaces petroleum-based raw materials without any negative impact on water or energy consumption or waste generation in the dye manufacturing process
- It solves the problem of wool waste for sheep farmers
- One kg of wool waste can produce 10 kg of FiberColors® dyestuff, enough to color up to 400 garments with a more sustainable alternative to traditional petroleum-based dyes
- The dyes deliver the same dyeing and fastness performance as conventional sulfur dyes and are GOTS-approved

Wool waste is a major problem worldwide as sheep farmers are forced to pay to dispose of fleeces that are not commercially valuable. By upcycling this unwanted wool, Archroma is supporting farmers to reduce waste and improve resource efficiency.

85-90%
(WASTE)

- Wool waste typically left to decompose or undergo different destroying method
- Waste results in various incineration issues, such as soil, land contamination



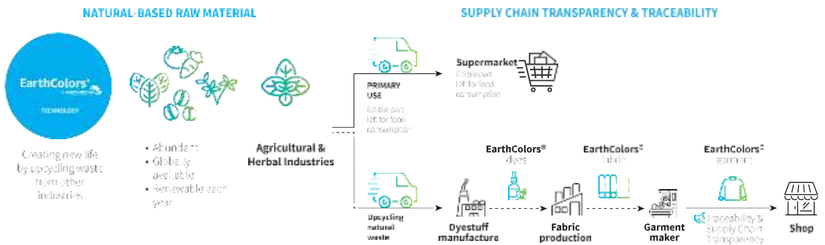
10-15%
(MADE INTO PRODUCTS)

- Undergoes washing
- 70% of the clean fibers are made into end products
  - High quality wool: wool garments, high value products
  - Medium to low quality wool: Insulators, manure, bio-plastics

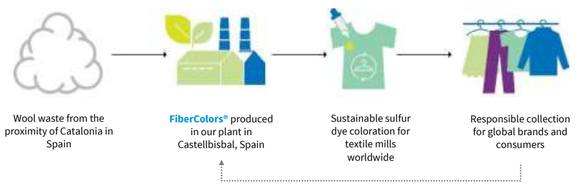
/ CREATING A NEW, COLORFUL LIFE FROM WOOL WASTE

FiberColors® builds directly on the success of our EarthColors® platform, which has now been adopted by more than 50 global brands and helped us upcycle over 60 tons of plant residue from the herbal and pharmaceutical industries. With FiberColors®, we identified wool waste as another significant stream that circular chemistry could transform — giving brands a compelling and fully traceable sustainability story.

Natural waste made into **EarthColors®** dyes



Wool waste transformed into **FiberColors®** dyes



Targeted for cellulosic such as cotton, viscose, linen, bamboo and kapok.
FiberColors® is also suitable for wool and wool blends for a full circularity approach.

High wet fastness performance
FiberColors® has excellent affinity for cellulosic fibers. Light fastness on pale shades are limited.

Can be applied with most well-established dyeing processes
FiberColors® can be applied to continuous piece dyeing, jet/overflow exhaust coloration, garment dyeing, as well as processes typically used in the denim coloration (slasher, rope, etc.). FiberColors® can also be used in printing applications.

Brands and retailers will be able to create complete collections
FiberColors® works great with casual wear, home textiles and denim garments.

/ DIRESUL® FIBERCOLORS® RANGE

- Bio "wool waste" based sulfur dyes can be applied like existing pre-reduced sulfur dyes by Archroma (DIRESUL® and EarthColors®)
- Suitable for cellulosic and wool fibers
- Five different colors that span across a wide gamut

DIRESUL® FIBER-TEAK
synthesized using 100% wool waste-based raw material

DIRESUL® FIBER-OCHRE
synthesized using 50% wool waste-based raw material

DIRESUL® FIBER-MAROON
synthesized using 50% wool waste-based raw material

DIRESUL® FIBER-SLATE
synthesized using 50% wool waste-based raw material

DIRESUL® FIBER-GRAPHITE
synthesized using 50% wool waste-based raw material

