



ALL THINGS BLUE

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Welcome to Indigo Sky, a full range of indigo knits, made using the latest & greatest technologies, the next step in the indigo evolution. Traditionally indigo dyeing & finishing has been a very messy process.

Challenges like;

- **Dyeing:** Indigo dye is not water-soluble, which means it is difficult to dye cotton yarns with indigo. The dyeing process requires a lot of water and chemicals to create the right conditions for the dye to penetrate the fibers.
- **Color inconsistency:** Indigo dyeing is a complex and time-consuming process, which means it can be challenging to maintain consistency in color from one batch to another. This can result in different shades of indigo denim fabrics.
- **Environmental impact:** The production of indigo denim fabrics can have a significant environmental impact due to the use of large quantities of water, chemicals, and energy. The waste from the dyeing process can also be harmful to the environment if not properly treated.
- **Quality control:** The production of high-quality indigo denim fabrics requires careful monitoring of the dyeing process to ensure that the color is consistent and the fabric is not damaged. Any mistakes or defects can result in wasted materials and increased costs.
- **Cost:** The production of indigo denim fabrics can be expensive due to the time-consuming and complex dyeing process, as well as the cost of materials and equipment. This can make it difficult for smaller manufacturers to compete with larger companies that have more resources.



For the last few years we have been working on solving some of these issues, and here is what we are doing.

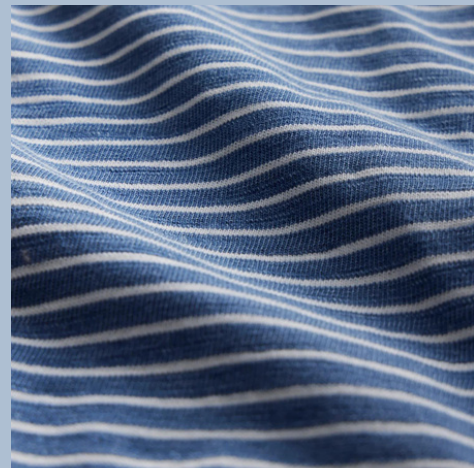
- **Dyeing:** We are using Pre-reduced indigo, which is a type of synthetic indigo dye that has been chemically modified to make it more water-soluble. Traditional indigo dye is not water-soluble, and it requires a reducing agent to dissolve in water and attach to the fibers of the fabric. Pre-reduced indigo dye, on the other hand, has already been reduced and is more soluble in water, which makes the dyeing process more efficient and less wasteful.
- **Color Consistency:** by using the low impact pre-reduced indigo, this allows us to achieve better color consistency from dye lot to dye lot in our dye & finish process.
- **Environmental impact:** 100% of all **indigo sky** is dyed using low impact dye methods, minimizing the process, including, using re-cycled waste water (less water) and less less chemicals.
- **Quality control:** As stated above this allows us to do smaller batch dying and allows to to maintain more consistency from dye lot to dye lot.

Note: The pre-reduced indigo dye is produced by adding a reducing agent, such as sodium hydrosulfite, to indigo powder. The reduction process converts the insoluble indigo dye into a soluble form, making it easier to dissolve in water.



COLOR FASTNESS TEST RESULTS

TEST	METHODS	RESULTS
CF to Crocking (Wet/Dry) Rubbing	ISO 105-X12	Dry : 3.0 (Dyed or Printed using Pigment / Sulphur / Indigo) Wet : 1.5 (Dyed or Printed using Pigment / Sulphur / Indigo)
CF to Laundering (Washing)	ISO 105-C10 A(1)	Change : 3.5 (Dyed or printed using Pigment/sulphur/Indigo) Staining : 3.0 (Dyed or printed using Pigment/sulphur/Indigo)
CF to Water	ISO 105-E01	Change : 3.5 (Dyed or printed using Pigment/sulphur/Indigo)Staini ng : 3.5 (Dyed or printed using Pigment/sulphur/Indigo)
CF to Perspiration	ISO 105-E04	Change : 3.5 (Dyed or printed using Pigment/sulphur/Indigo) Staining : 3.5 (Dyed or printed using Pigment/sulphur/Indigo)



Solids, Textures, different Fibre Contents, Cotton, Cotton/Tencel, Modal, Lyocell. Different fabric weights from 130-300gsm, different garment styles, polos, 1/4 zips, hoodies, men's and women's. Ask your CAUSA representative for more details and swatches.

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