



# Material Matrix



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Since there is no universal framework for low-impact or circular materials, Xandres developed its own Material Matrix.

This matrix is a living document and aims to guide the design team to make sustainable choices when sourcing fabric.

We have defined four categories to classify fibres on a sustainability level (with category 1 being the best available option). By sorting fibres, we want to push ourselves and challenge the industry to move forward.









Knowing that we still have a long way to go, this is how we want to track and share our efforts. We strive to increase the use of sustainable materials as defined in this matrix year by year and will report on the progress biannually.















The Material Matrix is based on desk research and takes into account the Higg Materials Sustainability Index (MSI), the Environmental Benchmark for Fibres (by Made-by), the Background document on raw materials, risks and more sustainable alternatives as defined in the Dutch Agreement on Sustainable Garments and Textile and the information provided by the Sustainable Fashion Academy.

The Material Matrix can be updated when our industry insights are further developed with new insights.





version: 2021






# Material Matrix *Natural*

		category 1	category 2	category 3	category 4
NATURAL	plant-based	 Recycled Cotton	 Certified organic cotton	 Cotton made in africa	Conventional cotton
		 Regenerative cotton	 Certified fairtrade cotton		 BCI cotton
	linnen	 Certified organic linnen	Conventional linnen (preferably natural retting instead of chemical)		
	hemp/jute	 Certified organic hemp Certified organic jute	Conventional hemp Conventional jute		

		category 1	category 2	category 3	category 4	
NATURAL	animal-based	<b>wool</b>	 Recycled Wool  Cardato CO2 Neutral  Re.verso (post-factory waste)	 Organic Certified wool Non-Mulesing wool  Organic Certified Alpaca, Yak  Organic Certified Mohair	 Responsible wool Alpaca, Yak  Responsible Mohair	Conventional wool Mohair Cashmere
		<b>silk</b>		 Certified organic silk Ahimsa Silk, Eri Silk, Peace Silk Wild Silk	Silk	
		<b>leather</b>	 Post-consumer recycled leather		 Leather Working Group leather Certified and vegetable-tanned or chrome-free tanned leather PU leather <ul style="list-style-type: none"> <li>• poly/nylon/polyamide blend.</li> <li>• recycled content blends preferred</li> <li>• plant-based polyester preferred</li> <li>• polyurethane laminate (PUL)</li> <li>• must use water-based solvents</li> </ul>	Leather
		<b>down</b>	 Recycled down	 Responsible Down Standard, Global Traceable Down Standard, Down Pass		Feather & down
		<b>fur</b>			 Re-used fur, Recycled synthetic fur, EcoPel Faux fur	Fur

# Material Matrix *Manufactured*

		<i>category 1</i>	<i>category 2</i>	<i>category 3</i>	<i>category 4</i>
<b>MANUFACTURED</b>	<b>retro-based</b>	<b>polyester</b>	 Recycled polyester		Virgin polyester
		<b>acrylic</b>	 Recycled acrylic		Virgin acrylic
		<b>polyamide/nylon</b>	 <b>ECONYL</b> Econyl®		Virgin nylon (polyamide)
		<b>elastane</b>	 Recycled Elastane (spandex)	Biobased elastane	Virgin elastane/spandex; Rayon

		<i>category 1</i>	<i>category 2</i>	<i>category 3</i>	<i>category 4</i>	
<b>MANUFACTURED</b>	<b>bio-based</b>	<b>viscose/rayon</b>	 EcoVero™ (Lenzing)	Enka® viscose	 FSC certified viscose	Viscose
			 Refibra™ (Lenzing)		Canopy engaged viscose (FSC + producer has signed Canopy policy and is working towards improvements)	Bamboo Viscose Cupro
	<b>lyocell</b>	 TENCEL™ (Lenzing)		Lyocell		
	<b>modal</b>		 Modal™ (Lenzing)	Lenzing Modal® (Lenzing)	Modal	



