



Annexe
Material
Matrix



Material Matrix

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
		 Certified organic linen	Conventional linen (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	wool	 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
		silk		  Certified organic silk Ahimsa Silk, Eri Silk, Peace Silk Wild Silk	Silk	
		leather	 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"> • poly/nylon/polyamide blend. • recycled content blends preferred • plant-based polyester preferred • polyurethane laminate (PUL) • must use water-based solvents 	Leather
		down	 Recycled down	   Responsible Down Standard, Global Traceable Down Standard, Down Pass		Feather & down
		fur			 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>
MANUFACTURED	retro-based	polyester	 Recycled polyester		Virgin polyester
		acrylic	 Recycled acrylic		Virgin acrylic
		polyamide/ nylon	 Recycled nylon ECONYL® Econyl®		Virgin nylon (polyamide)
		elastane	 Recycled Elastane (spandex)	Biobased elastane	Virgin elastane/spandex; Rayon

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

