



# *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 ranking materials this way, we want to challenge ourselves and 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: 2024






# Material Matrix *Natural*

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

NATURAL	animal-based		category 1	category 2	category 3	category 4
		wool	 Recycled Wool	  Organic Certified wool	 Responsible wool	Conventional wool
			 Cardato CO2 Neutral	Non-Mulesing wool		
			 Re.verso (post-factory waste)			
				  Organic Certified Alpaca, Yak	Alpaca, Yak	
				  Organic Certified Mohair	 Responsible Mohair	Mohair
			 Recycled Cashmere		 Good Cashmere Standard	Cashmere
		silk		  Certified organic silk Ahimsa Silk, Eri Silk, Peace Silk Wild Silk	Silk	
		leather	 Post-consumer recycled leather		 Leather Working Group leather	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>	
		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*

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

MANUFACTURED	bio-based		category 1	category 2	category 3	category 4
		viscose/rayon	 EcoVero™ Ecovero™ (Lenzing)	Enka® viscose	 FSC FSC certified viscose	Viscose
			 Refibra™ Refibra™ (Lenzing)			
		lyocell	 TENCEL™ Tencel™ (Lenzing)		Lyocell	
		modal		 Modal™ Lenzing Modal® (Lenzing)		Modal