

FULGAR INNOVATION FIBER

Amni

SOUL ECO®



Fulgar actively promotes sustainable development with a worldwide team which is over 1,000-strong and represents both our corporate achievements and Italian Excellence.



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Today more than ever, a company's competitiveness is measured by its "reputation", a complex mix of different factors, in which ethical considerations, such as environmental sustainability, play and increasingly important role.

The contemporary consumer is more aware and informed. They want to orient their buying decision around **products that are deemed "clean" in every aspect of their life cycle.**

**FOR A CHANGING FASHION APPROACH,
SUSTAINABLE, ETHICAL AND INNOVATIVE,
CHOOSE A TRULY DISTINCTIVE INGREDIENT.**



AMNI SOUL ECO® IS RECOMMENDED FOR COUNTRIES WHICH HAVE LANDFILL OR ANAEROBIC DIGESTION AS A METHOD FOR WASTE MANAGEMENT.
Brand owners and retailers are responsible to follow local waste policy and legislation.



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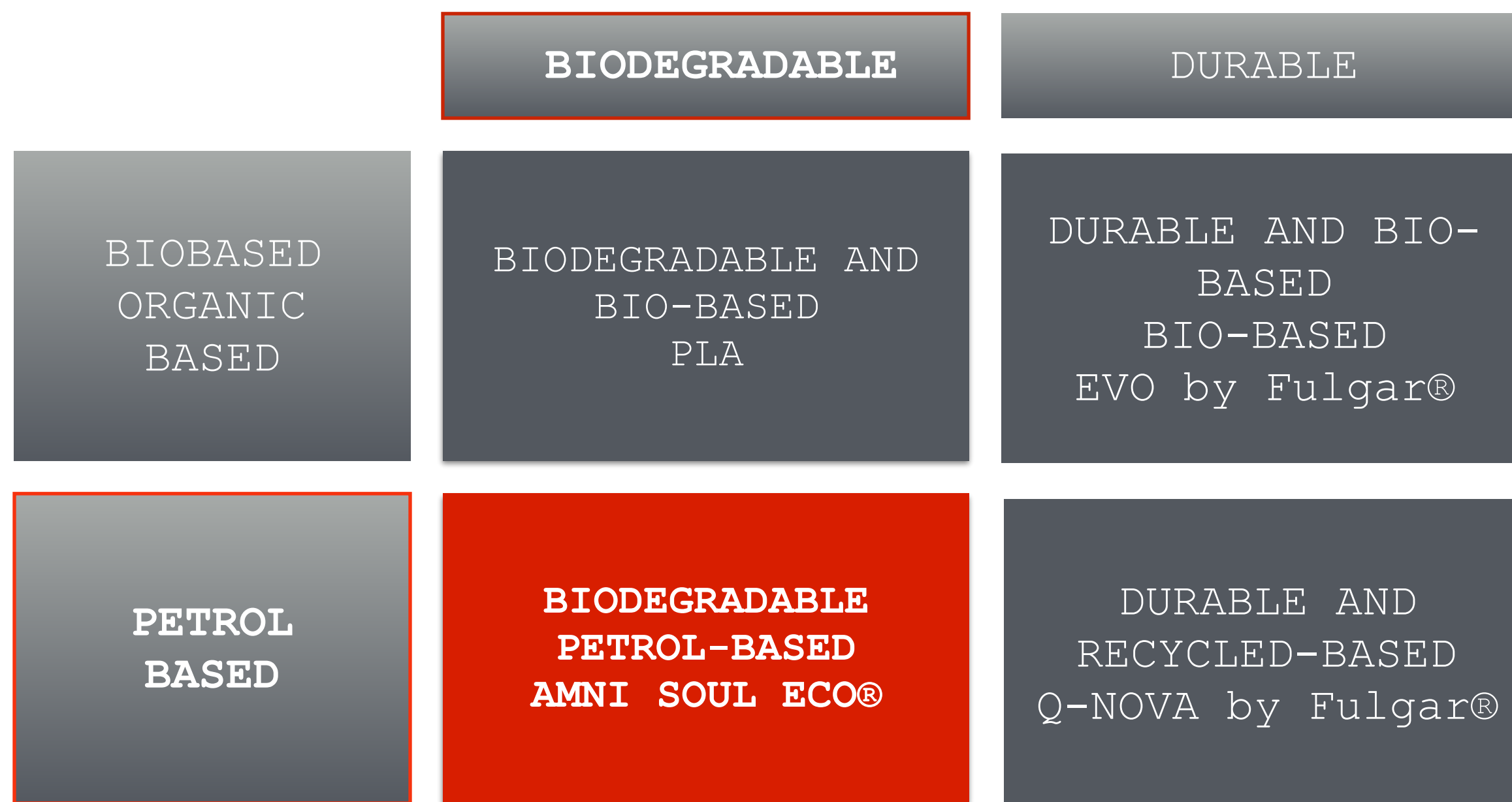
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Amni Soul Eco® is the polyamide 6,6 yarn with enhanced **biodegradability**, developed and produced by **Solvay** and distributed by Fulgar.

As demonstrated by laboratory biodegradation tests in accordance with ASTM D5511, **Amni Soul Eco® biodegrades in around 5 years when disposed of in specific landfills**, compared to more than 50 years for synthetics fibers in general.

ASTM D5511



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HOW DOES AMNI SOUL ECO® WORK?

Amni Soul Eco® is basically a polyamide 6,6 with a formulation of additives that confer the property of enhanced biodegradability.

These additives facilitate the access of bacteria to the microscopic structure of the fiber, by "swelling" the fiber when exposed to high humidity, and by triggering the biofilm formation process through a biological mechanism known as "quorum sensing".

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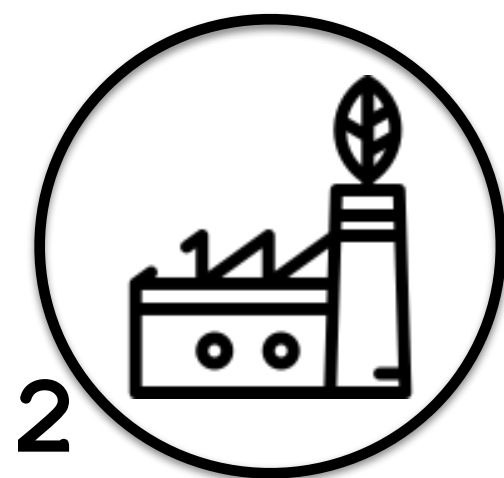
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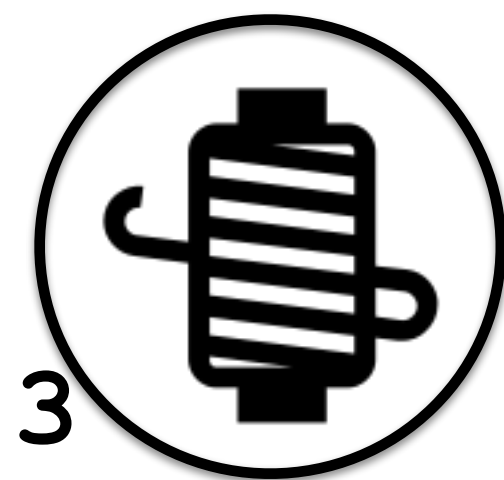
KEY POINTS RESPONSIBLE PRODUCTION AND A CONTROLLED DISPOSAL



1

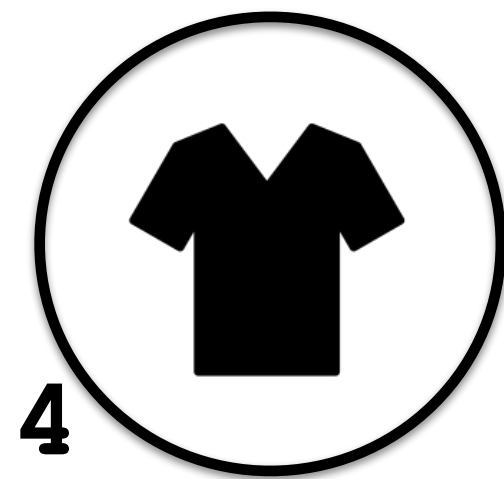


2



3

"A CIRCULAR VALUE CHAIN"



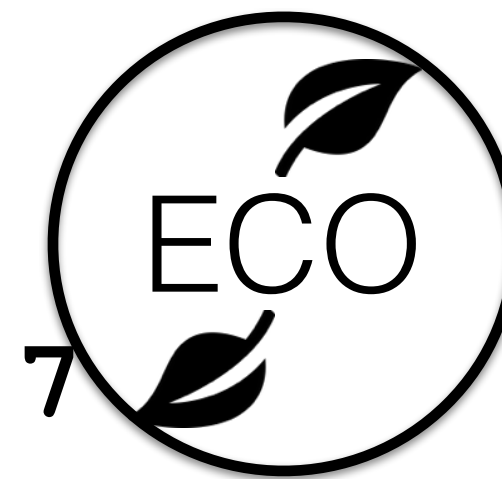
4



5



6



7

Amni Soul Eco® technology keeps the durability and the quality clothing, thanks to the decomposition process that only starts when the garment is discarded and reaches the **landfill having contact with microorganisms existing in this anaerobic environment**, which accomplish the yarn biodegradation.

Unlike other fibers which take decades to be decomposed, Amni Soul Eco® takes **around five years*** to be eliminated from the planet, reducing the environmental impact

*Based on ASTM D5511 - Standard Test Method for Determining Anaerobic Biodegradation of Plastic Materials Under High-Solids.



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ASTM D5511

DOES AMNI SOUL ECO® HAVE TOXIC COMPONENTS TO HUMANS OR TO THE ENVIRONMENT?

Amni Soul Eco® has no toxic components in its formulation. The product is **OEKO-TEX® certified**.

The residues of its biodegradation are basically organic compounds, in the same way as residues from other natural biodegradable materials such as paper and cotton. They are free of heavy metals, and their non-toxicity to the environment has been proven by **testing according to method / standard ASTM E1963** - Standard Guide for Conducting Terrestrial Plant Toxicity Tests.



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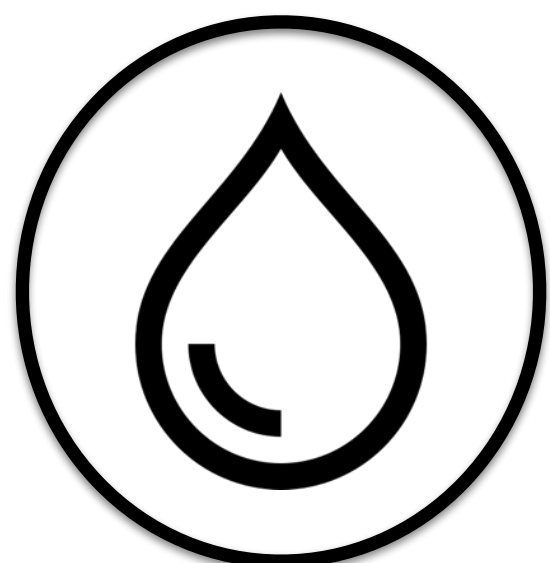
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1,14 gr/cm³ ASE.
 1,34 gr/cm³ PES
 1,54 gr/cm³ CO

LIGHTWEIGHT

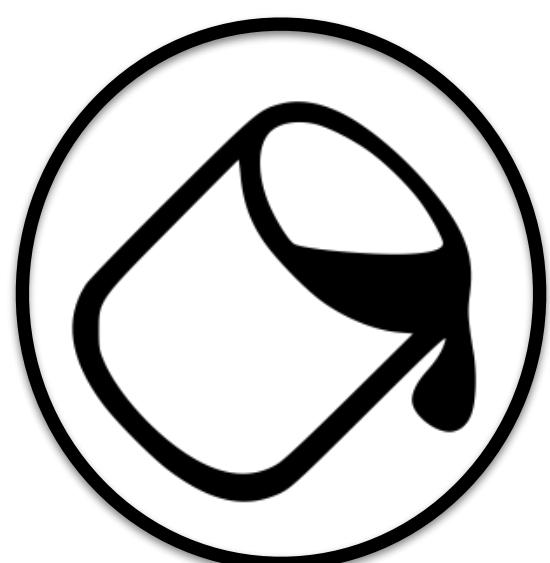
Thank to Amni Soul Eco® is possible to **reduce the specific weight** respect to Polyester and Cotton and maintains the same coverage power.



0,40 % PES
4,00 % ASE.
 8,00 % CO

MOISTURE MANAGEMENT

Amni Soul Eco® has a **good moisture management property**, this feature help to maintain the freshness and hygiene of the skin.



COLORS AFFINITIES

Amni soul Eco® is designed to obtain the maximum dye-ability performance. Fabrics and garments made with **Amni Soul Eco® can be dyed with levels of wet fastness as standard Polyamide 6,6.**



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