



Sustainability & Nomex



Circular economy



Water stewardship



Climate change



Health, safety, well-being



Sustainable innovation



Product safety & transparency

Sustainability: One of DuPont's top priorities for its Nomex[®] solutions

As a co-founder and member since 1995 of the World Business Council for Sustainable Development (WBCSD), DuPont seeks to be a sustainability leader in the industrial environment and is committed to using a science-based approach to our innovations and our goals.

DuPont is taking action to discover and commercialize new ways to turn unused materials into useful products or recycling them back into production for a more circular process.

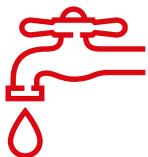
Sustainable Operations

Contributing to a circular economy

DuPont's production process for DuPont[™] Nomex[®] fibres yields a secondary product, hydrochloric acid, that is traditionally not considered to be marketable.

DuPont partnered with Gonvarri Steel Services to create a beneficial use of this byproduct, eliminating both the byproduct waste and the required neutralization process.

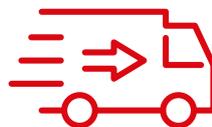
This initiative also significantly reduces annual water use, electricity consumption, and ground transportation associated with Nomex[®] production*:



350 people
water consumption



1.500 homes
electricity consumption



500.000 km
in road transport

* Over the lifetime of the partnership, we will be able to annually reduce water consumption equivalent to that used by 350 people and electricity consumption equivalent to the energy consumed by 1,500 homes, in addition to eliminating 500,000 km per year in road transport.

DU PONT
Nomex[®]

From Fiber to End-of-life Garment

Fiber

Fiber manufacturing by DuPont



Fabric

Fabric manufacturing by DuPont & DuPont collaborating with partners



Garment

Garment manufacturing* by DuPont & DuPont collaborating with partners



*in Middle East

End-of-life garment

DuPont collaborating with partners for recycling



DuPont is taking ownership throughout the whole Nomex® journey.

Production in Europe

All Nomex® plants comply with ISO 14001*

Our European manufacturing site is located in Spain. This allows for shorter transport routes within Europe, reducing fuel consumption.

Source: <https://www.iso.org/standard/60857.html>

* ISO 14001:2015 specifies the requirements for an environmental management system that an organization can use to enhance its environmental performance. ISO 14001:2015 is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.

Durability – Less Waste

Nomex® is a durable material and can safely be worn for longer periods of time. This eliminates the need to change garments as frequently, therefore reducing the amount of waste generated by each wearer.

Other FR garments



Nomex® garments



Waste after wear time period

Recycling

How can we reduce the amount of aramid garments going to landfill? How can we recycle the fibres and transfer them to new valuable & profitable applications?

With its inherent FR properties, Nomex® has the advantage to keep its flame resistance properties even after recycling.



Our ability to bring sustainable solutions to market is an absolute expectation of our customers, our shareholders, our employees and our communities.

**Be a part of it.
Collaborate with us.**

The DuPont Second Life Materials (2LM) business operates as an intrapreneurial startup within DuPont, working closely with both internal and external customers to identify opportunities that simultaneously reduce waste to landfill and realize financial benefits. First, 2LM conducts a technical site visit to identify the various forms of waste a customer produces, including end-of-life product disposal processes and costs associated with each waste and product stream. 2LM then works with the customer to identify avenues of unrealized benefits within those streams and then execute opportunities together.

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