



Purenat

The future of air purification

**“Protecting people's health and well-being by innovating
to clean up our environments with commitment and
responsibility.”**

About

Indoor air quality: a public health issue

4th Cause of death worldwide

7x More death than road accidents in France

10x More pollution indoors

80% Of our time spent indoors



Current solutions are incomplete and Energy-consuming



**WHICH
ALTERNATIVE ?**

Increase energy consumption

Can exacerbate the problem

Require heavy and costly maintenance

Increase carbon impact

Generate waste and by-products

Purification technologies

Parameters	Activated carbon filter	Microalgae	UV-C	Ionization or plasma	Photocatalysis	Purenat
Performance in real-life conditions	-	-	-	-	-	✓
Destruction of pollutants	X	X	✓	X	✓	✓
VOC, odors, micro-organisms	✓	X	✓	X	✓	✓
Low maintenance	X	X	X	✓	✓	✓
Waste reduction	X	✓	-	✓	✓	✓
Low-carbon solution	X	-	✓	✓	✓	✓
Low energy consumption	X	✓	-	✓	✓	✓
Low weight	X	X	✓	✓	✓	✓
Ergonomic / aesthetic	X	X	-	✓	-	✓
Secondary pollutant-free	-	✓	X	X	X	✓

A patented disruptive technology

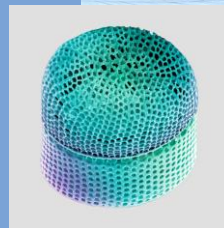
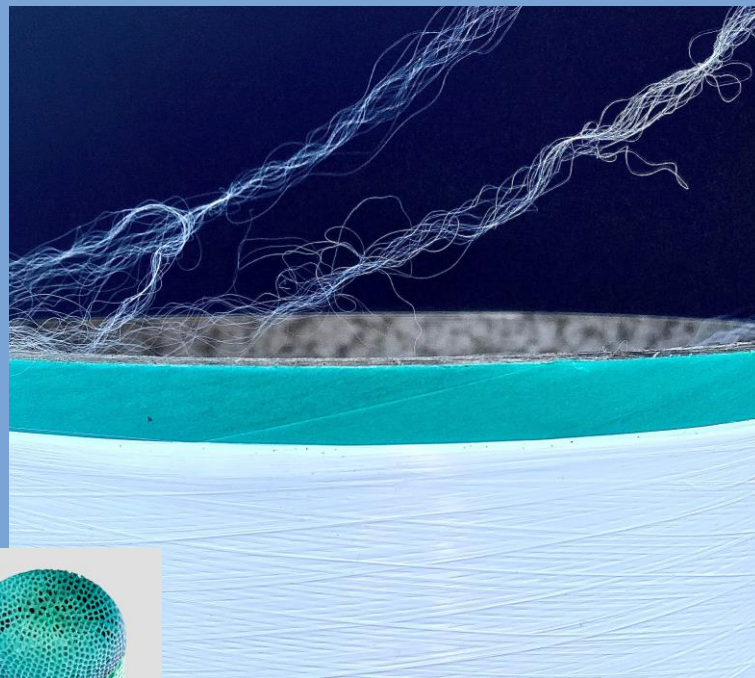
The innovative biomimetic material developed by Natacha Kinadjian Caplat takes the form of a fiber, which is then transformed into a textile using the non-woven process. The composition of this fiber contains an active depolluting agent (photocatalytic agent) that destroys organic pollutants.

This is the first time that a fiber and then a filter incorporate in its composition such an active agent, rather than simply be coated with it.

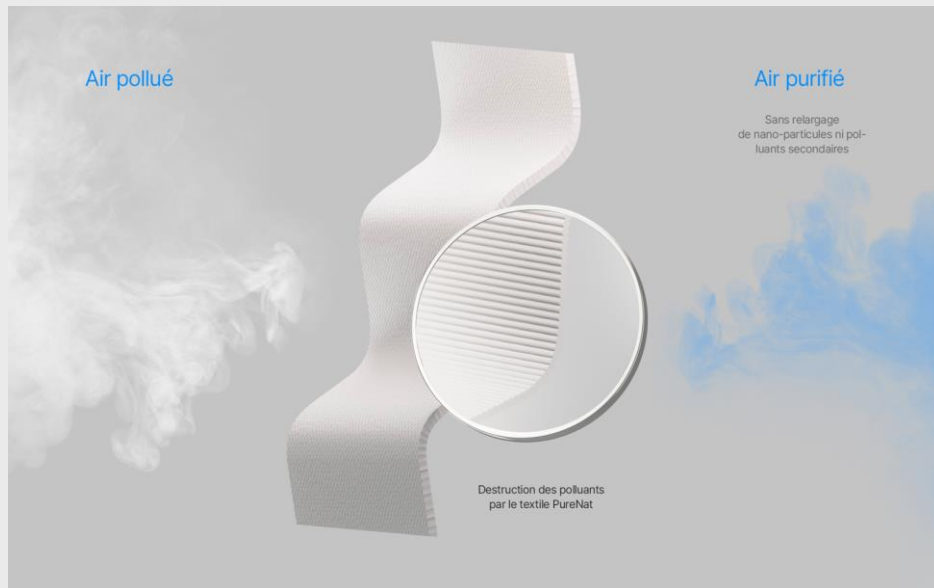


Natacha Kinadjian Caplat
President and Founder

PhD in Materials Chemistry
Indoor Air Quality Expert (exp 12 years)



Three-dimensional structure imitating the cells of diatoms (marine algae)



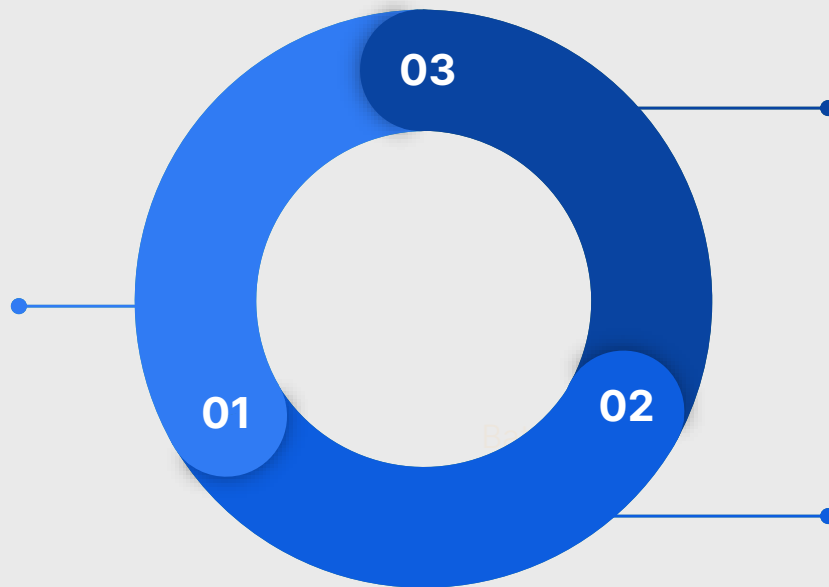
Purenat air treatment system

A genuine low-carbon alternative to activated carbon filters, Purenat technology is **the first filter that permanently eliminates VOCs, odors and micro-organisms**, and therefore **doesn't clog up**. Purenat revolutionizes photocatalysis with **an active textile that does not lose effectiveness over time**, and does not create or release **any dangerous by-products**.

A complete offer

Personalized pre-study

Analysis of how your system works and the conditions under which it is used in order to define a unique tailor-made solution that fits your needs.



Sale of tailor-made active textiles

Purenat active textiles (media) are semi-finished products sold in roll form and designed to adapt perfectly to your equipment. They are also adjustable to your specifications, guaranteeing optimum integration into your process.

Personalized recommendations

Integration of the customized solution to provide you with a performance report on your Purenat technology pollutant abatement unit.

The Purenat solution

Benefits : health, comfort, savings, ecology



Sustainable filter media

By destroying pollutants at source rather than just storing them, Purenat technology considerably reduces maintenance costs and the amount of waste associated with filter replacement.



VOCs, odors and micro-organisms

Alternative to activated carbon filters, with better performance, less pressure drop, longer lifetime, lighter weight and avoided carbon emissions. They are also effective against bacteria and viruses.



Energy savings

The durability of the material, which regenerates itself as pollutants are destroyed, reduces filter clogging. No need to force air through the ventilation system.



Plug-in

Adjustable to your specifications and adaptable to your system. Technology enabling the design of miniaturized, lighter, more aesthetic and more ergonomic air handling systems.

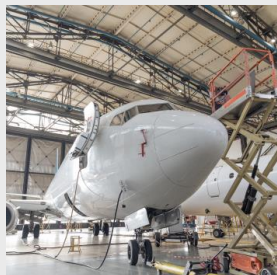
Industrial applications

Integrated technology tailored to meet the air pollution control needs of manufacturers in a wide range of sectors.



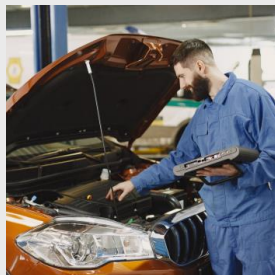
Industry

- Winner of Global Industrie Awards 2023
- Tackling factory air pollution
- Responding to tougher regulations
- Protect workers' health
- Meet carbon neutrality objectives



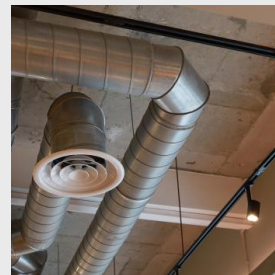
Aeronautics / Aerospace

- Lower energy consumption, less waste and lighter weight
- Purenat offers solutions to the issues of decarbonization, weight reduction, lighter maintenance and air treatment
 - ✓ In aircraft
 - ✓ In infrastructures
 - ✓ In airports
 - ✓ In factories and industrial buildings



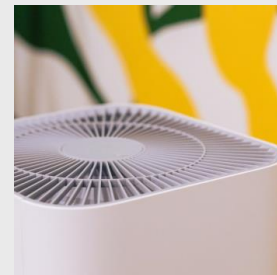
Automotive

- Purenat contributes to the automotive sector by replacing activated carbon filters
 - ✓ In automotive interiors
 - ✓ In industrial infrastructures



Building / Ventilation

- Can be integrated into building ventilation systems



Air purifiers and everyday objects

- Purenat active textile replaces certain filters, in particular activated carbon filters.
- Its malleability and light weight make it possible to miniaturize design, reduce bulk and improve aesthetics and ergonomics (e.g.: purifying acoustic corrector).

Purenat in a few words...

- Industrial deeptech startup founded in 2020
- Two founders supported by a team of 4
- 1 patent in 2022
- 1st fundraising round (€1.1M) in 2023 to recruit, complete the industrial scale-up and start commercial launch
- A Social and Solidarity Economy company

Natacha Kinadjian Caplat

President and founder

PhD in Materials Chemistry
Indoor Air Quality Expert (exp 12 years)



Manon Vaillant

CEO

Biotechnology engineer
Specialized in Strategic Marketing (exp 12 years)
Certified Professional Coach (Coach&Team)



Christophe Saint Martin

Industrial Director

Mechanical engineering, specializing in the design and manufacture of special-purpose machines for all applications (exp 22 years)

Contact us

By email: contact@pure-nat.com

By phone : +33(0) 5 59 01 11 64

Follow



Visit the website



Purenat

They supports us

