Purenat

LOW-CARBON ALTERNATIVE TO ACTIVATED CARBON FILTERS

Purenat solution

1ST MOLECULAR AND MICROBIOLOGIC FILTER WHICH DESTROYS POLLUTANTS INSTEAD OF CAPTURING THEM

High performance self-cleaning filter

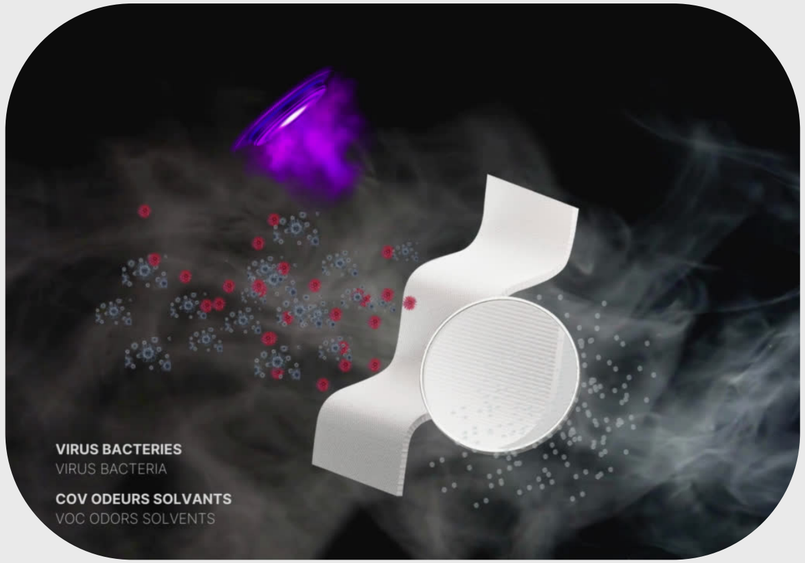
- Destruction of pollutants at source : **VOCs, solvents, odors, bacteria, viruses (including COVID)**
- **Constant, guaranteed** : depollution: no clogging and maximized depollutant content
- Safe : **no realease** of hazardous by-products

Sustainable and low-carbon

- Doesn’t clog up : **lifespan up to jusqu‘à 5 years** (50.000hr)
- **Energy savings** : low pressure drop (up to 10 Pa)
- **Reduces the amound of waste** associatedwith filter replacement
- **Avoided carbon emissions**

Adaptable to any air-treatment system

- **Ajustable** to your specifications: analyse de vos besoins techniques
- Adaptable to your system: **customized dimensioning**
- Technology enabling the design of **miniaturized, lighter, more aesthetic and more ergonomic air handling systems**



Purenat

Our commitment

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

Member of la Communauté du Coq Vert
Actors committed to the ecological and energy transition
BPI France | Ademe

Project financed by l’Ademe
Member of Ademe International

Deeptech committed to French reindustrialization

Purenat

Indoor air quality: a public health issue

4th	Cause of death worldwide
7x	More death than road accidents in France
30%	Loss of productivity
3x	No more sick leave

Purenat

Current solution 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

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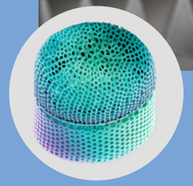
A patented disruptive technology

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 +14 years)
Top 100 Inventors of 2024
Le Point



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

MINISTÈRE DE LA TRANSITION ÉCOLOGIQUE ET SOLIDAIRE
Liberté Égalité Fraternité

Plan bâtiment durable Cap 2030

afnor GROUPE

ADEME AGENCE DE LA TRANSITION ÉCOLOGIQUE

IEC NORMES INTERNATIONALES

Purenat

The right answer to your needs

Health, Environment, Comfort, Quality of Life

Purify indoor air

Waste treatment

Reduce odors

Purenat

Implementing an air pollution control project

Our team of Air Quality experts will be with you every step of the way, from the initial analysis to the custom-designed solution.

INITIALE ANALYSIS

Analysis of how your system works and the conditions under which it is used.

ADAPTED PROTOTYPING

Integration of our customized solutions into your laboratory, pilot or semi-industrial-scale installations

ANALYSIS AND RECOMMENDATIONS

Purenat's technical experts draw up a performance report for your Purenat technology pollutant abatement equipment.

CUSTOMIZED SIZING

Dimensioning the right quantity and the right shaping of Purenat textile with a view to scaling up the technology to industrial scale: a full-scale installation

Purenat manufactures media rolls from its innovative material. Its shaping (housing and depolluting cassette) is subcontracted to filter manufacturer partners.

Key partners

CSTB
le futur en construction

afnor
GROUPE

CETI
CENTRE EUROPÉEN DES TEXTILES INNOVANTS

CONIDIA

canoe
LE CENTRE TECHNOLOGIQUE
NOUVELLE AQUITAINE
COMPOSITES & MATÉRIAUX AVANCÉS

IMT Lille Douai
École Mines-Télécom
IMT-Université de Lille

IPREM
Institut des sciences analytiques
et de physico-chimie
pour l'environnement et les matériaux

VirexpR

About Purenat

- Industrial deeptech startup founded in 2020
- Two founders supported by a team of 6
- 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
Présidente et Fondatrice

PhD in Materials Chemistry
Indoor Air Quality Expert (exp. 15 years)
Afnor France & International workgroups
100 inventors of the year 2024 by Le Point

MANON VAILLANT
General Manager

Biotechnology engineer
Specialized in Strategic Marketing (exp. 15 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)

AN AWARD-WINNING INNOVATION

Purenat

SALES TEAM

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They Support Us

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