
Based on research developments performed at ETH Zürich, FenX exploits the ideal properties of inorganic particles including mineral waste, to create highly robust and porous foams that can be processed through advanced methods, such as extrusion or 3D printing.

With this novel and protected technology, the company aims to design and produce insulation foam products, including panels, bricks and customized parts.

These products are non-flammable, highly insulating, non-toxic, recyclable and eco-friendly yielding low CO2 emissions during manufacturing. Today, the same technology can be translated to 12 different low cost inorganic materials.

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After the fire catastrophes of the last years, there is an increasing demand for non-flammable insulating materials supported by recent and more stringent regulations on thermal insulators. Moreover, the growing debate over the high carbon footprint associated to traditional thermal insulators fosters novel eco-friendly solutions following the principles of circular economy.

To address this impellent and “green” demand, FenX develops new insulating foam solutions combining uniquely non-flammability and environmental friendliness.

Redesigning insulation

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HIGH-PERFORMANCE

λ: 0.04 - 0.6 W/(mK)
Compression: 0.1 - 2 MPa
Stable up to 1200 °C

ROBUSTNESS

Easy-to-manufacture
Fully customizable
Non-toxic

SUSTAINABILITY

Re-use of local waste
Minimized carbon footprint
100% recyclable
Long durability

APPLICATIONS

Buildings
Acoustics
High-Temperature
3D Printing

ROADMAP

Proof-of-concept
Prototype 1
1st Pilot Project
3 to 5 Pilot Projects

2018
2019
2020

BENEFITS

SUSTAINABILITY

Re-use of local waste
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ABOUT US

Dr. Etienne Jeoffroy
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Finance

Enrico Scoccimarro
R&D

Dr. Elena Tervoort
Scientific Advisor

Prof. Dr. André Studart
Technology Advisor

Paola Ghillani
Strategy Advisor

Michael Stucky
Financial Advisor

"It is not about what it is. It is about what it can become"
Dr. Suess