

High-performance insulation materials from mineral waste



Accumulated industrial waste Flame test of FenX foam

Redesigning insulation

The mission of FenX is to provide innovative and high-impact solutions which involve transversally the society, improve the current safety standards and challenge the market offer with high-tech and cost-efficient insulating materials.

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.

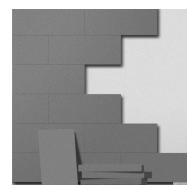
To address this impellent and “green” demand, FenX develops new insulating foam solutions combining uniquely non-flammability and environmental friendliness.

Safety. Sustainability. Performance.

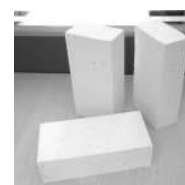
Based on research developments performed at ETH Zürich, FenX exploits the ideal properties of inorganic particles including mineral waste, to create highly robust and porous foams that can be processed through advanced methods, such as extrusion or 3D printing.

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.



Panels



Bricks



Customized Parts

BENEFITS

HIGH-PERFORMANCE

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

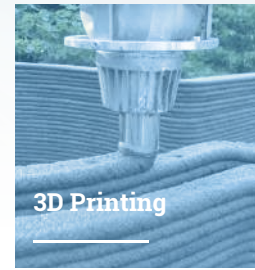
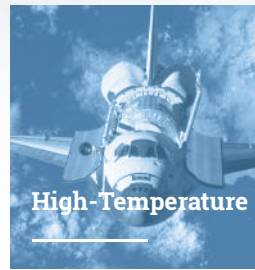
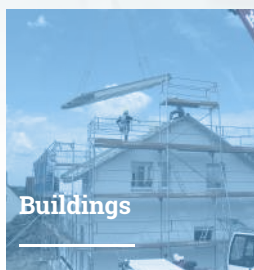
ROBUSTNESS

Easy-to-manufacture
 Fully customizable
 Non-toxic

SUSTAINABILITY

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

APPLICATIONS



ROADMAP



ABOUT US



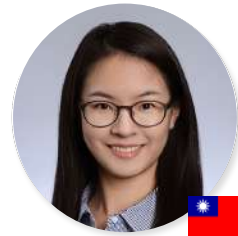
Dr. Etienne Jeffroy
 Co-Founder & CEO



Dr. Michele Zanini
 Co-Founder & CTO



Alessandro Dutto
 Head of R&D



Chun Hui Kuo
 Finance



Enrico Scoccimarro
 R&D



Dr. Elena Tervoort
 Scientific Advisor



Prof. Dr. André Studart
 Technology Advisor



Paola Ghillani
 Strategy Advisor



Michael Stucky
 Financial Advisor