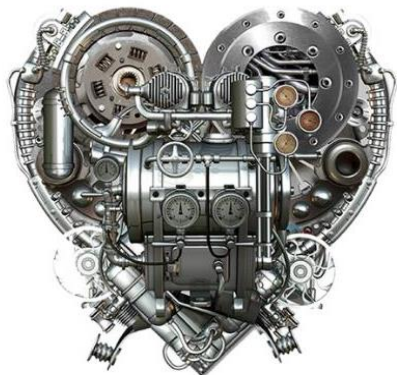


WHY ARE WE?



CONTACTS

Founded in 1985, SEPREX is a SME specialised in supercritical fluid (SCF) technology. A member of the FeyeCon group since 2012, it is now the European leader in the field. SEPREX has built more than 320 tailor-made installations perfectly adapted to its client's needs.

What do we offer ?

Cost elective solutions to create innovative and high performance products using our green and sustainable technology.

We deliver from feasibility study to implementation!



www.separex.fr

Phone +33383312424
+33383322483

Email jberriatua@separex.fr

**SUPERCritical CO,
AEROGEL DRYING**

**NANOLEAP CONTACT FOR
FURTHER INFORMATION ABOUT
THE USE OF THIS PILOT LINE:**

pilotplant@nanoleap.eu



Project NANOLEAP (www.nanoleap.eu)
Funded by the European Union's
Horizon 2020
Grant agreement No 646397

OUR TECHNOLOGIES

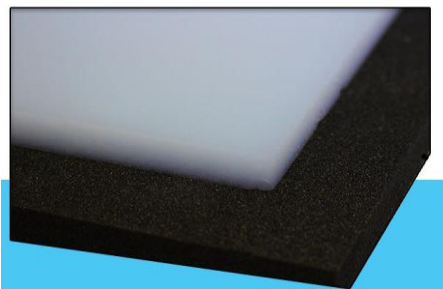
Our process

Separex developed an unique process and formulation allowing us to create Aerogels with superior quality. Separex uses Supercritical CO₂ drying process which helps protect the structure and performance of the Aerogel.

Using Separex Aerogel as insulation material only 1/5 of the insulation width is needed for the same insulation effect. This offers ample opportunity for the restoration of historical buildings, which need to comply with new insulation regulations and the insulation of structures where space is precious.

Separex drying advantages

doesn't modify the internal molecular network, making SCCO₂ dried aerogel more efficient than other drying processes. Moreover a SC reduced considerably the shrinking effect.



FEATURES

Versatile and Tailor made

From our 30 years experience in SC equipment, we manage to design multi functioned drying pilot. Our pilots satisfy the production of aerogel in different shapes (granulars, tiles, blankets...) that can be adapted to your needs.

Separex drying plant



The pilot plant designed managed the different manufacturing steps:

- Charge of material Controlled pressurization
- Supercritical drying in dynamic conditions
- Controlled depressurization

SERVICES OFFERED

What can we provide?

Aerogel recipe optimization
 Production of customized aerogels
 Properties such as conductivity, density or hydrophobicity are some of the parameters which can be tuned to meet the customer needs
 Up scaling feasibility study
 Evaluation of cost manufacture of productions to be scaled

Separex Aerogel properties

Ultra low density: 120 – 150 kg/m³
 Lowest thermal coefficient: 0.020 W/m K
 Non-toxic
 Tailor made hydrophobicity
 Flexible and highly resistant to compression
 Fire resistant
 Acoustic insulation

