

CECA's molecular sieves solutions for the automotive industry.



CECA has developed a range of Siliporite® molecular sieves for the automotive markets to keep damaging moisture away from fluids: air drying for air brake systems in buses and trucks, and refrigerant drying in automotive air-conditioning systems.

Siliporite® for air brake systems

Why using a Siliporite® molecular sieves?

Heavy vehicles such as trucks and buses use air to power their brakes. Air must be kept as dry as possible to avoid any freezing in the circuit but also any corrosion of the metallic parts. Siliporite® molecular sieves have been designed to **ensure absolute air drying and to withstand the severe mechanical stress** to which the system is subjected.

Benefits of using Siliporite® molecular sieves

- high kinetics
 - high mechanical strength
 - compatibility with the various oils used in air brake system circuits
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Siliporite® for air-conditioning and refrigeration

New refrigerant fluids require high performance molecular sieves in order to ensure a water-free system. Siliporite® molecular sieves have been used for decades in filter dryer cartridges.

Why use Siliporite® molecular sieves??

- Corrosion: the accumulation of free water in the evaporator is a source of corrosion. Water can react with the refrigerant and produce strong mineral acids leading to corrosion.
 - Freeze-up: the accumulation of free water in the evaporator can damage or even plug up the expansion valve and metallic tubes in the circuit.
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Benefits of using Siliporite® molecular sieves

- high water adsorption capacity
- high mechanical strength
- low attrition
- acid resistant
- controlled particle size
- high density
- long lifetime

CECA's Siliporite® molecular sieves have been developed with the expertise of Arkema's long-standing presence in the refrigeration sector, and tested with Forane® products.