



**Sorbacal® Micro 4099**, the non-flammable mineral solution to remove gaseous organic pollutants

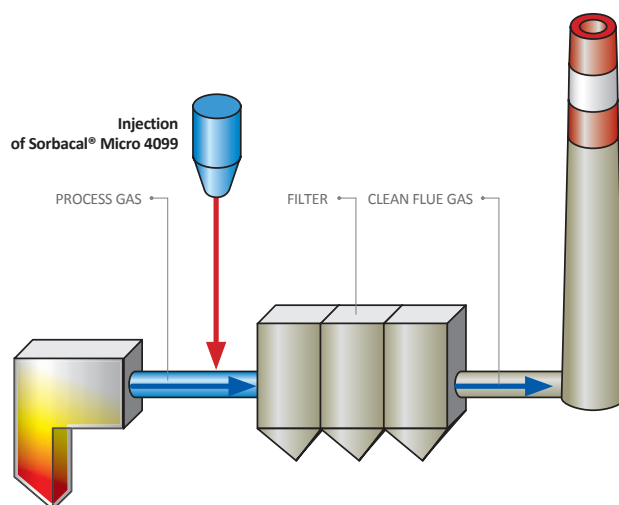


Gas cleaning innovation

## Strict standards, specific needs

Compliance with the very low emission limit values (ELV) for PCDD<sup>(1)</sup>, PCDF<sup>(2)</sup>, PCB<sup>(3)</sup> and PAH<sup>(4)</sup>

- achieving high performances at low costs
- reducing odours emission



Within our **Sorbacal®** product range, **Sorbacal® Micro 4099** offers you an extended solution to your flue gas cleaning systems.

**Sorbacal®** reagents are exclusive Lhoist patented mineral-based and calcium-based products.

(1) Polychlorinated dibenzo-dioxins  
(2) Polychlorinated dibenzo-furans  
(3) Polychlorinated biphenyls  
(4) Polycyclic aromatic hydrocarbons



## Sorbacal® Micro 4099, reliable, non-flammable and sustainable

### THE ADDED VALUE

#### COMPLIANCE & RELIABILITY

- Full compliance with regulations
- High performance up to 250°C and more
- No more stoppage due to punctual increase of temperature in the filter

#### SAFETY

- No risk of ignition
- No ATEX equipments required

#### COST-EFFECTIVENESS

- Operational costs reduced
- Compatible with standard dry sorbent injection (DSI) equipments, as pure or blended material
- Concrete friendly residues

#### EASE OF USE

- Neutral, non-irritating, non-corrosive and non-toxic
- Clean & beige powder
- Improved working conditions

## More than a reagent: the Lhoist offer

Based on trust and confidentiality, we provide you with tailored solutions. Our flue gas treatment services include know-how, test equipment, Mobile Measurement Units, CFD modeling and laboratory analyses.



**EXPERTISE**  
to provide  
reliable and  
effective  
solutions



**REAGENTS**  
to meet your  
specific needs



**SERVICES**  
to assist you in  
using reagents  
efficiently



## Performance

STEEL INDUSTRY EXAMPLE	
Flow rate	1 300 000 Nm <sup>3</sup> /h
Type of filter	Combination of electrostatic precipitators and baghouse filters
Temperature	145°C
Sorbacal® Micro 4099 consumption	150 kg/h ≈ 115 mg/Nm <sup>3</sup> *
Performance	Continuous compliance with the emission limit value

\* Performance depends on the type of filter, gas conditions and the dispersion of the product. Injection rates range from 50 to 500 mg/Nm<sup>3</sup>.

## Product range

If acid pollutants (SO<sub>x</sub>, HCl, HF) are to be treated, other Sorbacal® Micro blends can be delivered with a tailor-made composition depending on the abatement level of each pollutant and the operating conditions.

REAGENT	REMOVED POLLUTANTS	CONDITIONING
Sorbacal® Micro 4099	Dioxins/furans, PAH, PCB, odours	Bulk or big bags
Sorbacal® Micro #	Dioxins/furans, PAH, PCB, odours and SO <sub>2</sub> , SO <sub>3</sub> , HCl, HF	Bulk or big bags

## Lhoist, your global partner for flue gas treatment

Lhoist is a multi-national company, expert in lime, dolime and mineral products. The diversity of our product range and our industrial facilities around the world allow the Group to be a key partner in multiple industries and business sectors.



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