

PROTECTING INDUSTRY FROM H₂SO₄ ACID MIST

BlueFil® Demister Pads

Proven 99%+ H₂SO₄ Aerosol Removal

Tailor-made. Energy-efficient. Regulation-ready.

The Challenge:

Acid Mist in Industrial Gas Streams

Sulfuric acid aerosols in exhaust gases can cause:

- Severe corrosion of ducts, fans, and stacks
- Regulatory compliance risks due to fine droplet emissions
- Operational hazards for workers and downstream systems



Did You Know?

A single micron-sized H₂SO₄ droplet can corrode stainless steel in just a few hours. BlueFil® pads trap and drain these droplets before they reach your equipment.

The BlueFil® Solution

BlueFil® demister pads are engineered to capture and drain acid mist efficiently while maintaining low pressure drop.



Why BlueFil® Stands Out

- · Modular design for easy installation
- Proven 99 %+ removal efficiency
- Acid-resistant materials for long service life
- Custom-fit for any vessel geometry



Client Success Story

In early 2022, a leading chemical processing facility in Germany faced high-temperature acid mist challenges in their scrubber system. BlueFil® engineers collaborated closely with the client to design a modular demister pad configuration, optimized for high gas velocities and aggressive H₂SO₄ aerosols.

Performance Snapshot

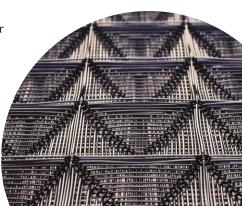
Droplet removal	≥ 99 % for > 2 µm
Pressure drop	13-16 mm W.C. (in vacuum condition)
Materials	PFA / ETFE
Temperature range	up to 160 °C
Gas flow	up to 90,000 Nm ³ /hr

Implementation Highlights

- Modular pad to fit through limited vessel openings
- Acid-resistant PFA / ETFE materials for durability
- Tailored layering to maximize fine droplet removal

Results

- Verified removal efficiency: 98-99 % for > 2 µm droplets
- Stable pressure drop: 13-16 mm W.C.
- · Reduced corrosion rates downstream
- Easy installation & maintenance during shutdown
- Pressure drop maintained within design limits





Let's Solve Your Mist Challenges

















metallurgical water treatment hydrogen semiconductors chrome plating



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