

BlueFil®

PHASE SEPARATION TECHNOLOGY
Catch Every Drop. Cut Every Cost.

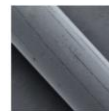
From mist elimination
to emission control,
BlueFil® delivers
precision separation
that protects your
process and the
planet.

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

Monofilament



BlueFil®



Other Supplier

Industrial processes often generate droplets and aerosols. To reduce environmental impact, it is crucial to capture and remove these particles from the gas stream. BlueFil® was developed to provide an effective solution for a wide range of industrial applications.

How It Works

BlueFil® uses a 3D-interlocked mesh of plastic monofilaments, with 93-97% of fibers perpendicular to the gas flow for high efficiency at low pressure drop.

For more challenging processes, we offer custom demisters, built with

multiple layers and carefully selected monofilament diameters to remove droplets $>1\mu\text{m}$. We also check your process parameters to ensure optimal material compatibility (PP, ETFE, PFA), delivering the best solution for your application.

Custom Grids & Frames

We design and manufacture custom grids and frames in the ideal material for your application for maximum efficiency and durability.

In a Nutshell

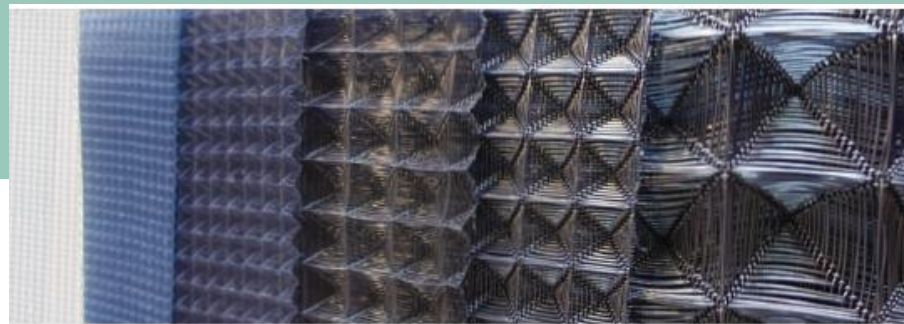
- The best **efficiency** and **pressure drop ratio** in the market
- **Tailor-made** pads in composition and shapes
- **Easy to maintain** (cleanable layer by layer and reusable)
- **Lightweight** and **flexible** for easy installation
- Easily **adaptable** to changing conditions, even after installation
- Helps meet **environmental regulations** without changing your complete installation
- Increases your **production capacity**
- Reduces **operational costs**





**BlueFil® delivers
maximum efficiency with
minimal pressure drop.**

**Lower pressure drop reduces energy
consumption, benefiting both the
environment and your total cost of
operations (TCO).**



An Ideal Solution for

Droplet Separation

BlueFil® features a unique pyramid-shaped grid structure, with almost all wires perpendicular to the gas stream for optimum droplet capture. Liquid particles collide, coalesce, and grow heavy enough to fall out of the air stream, allowing smooth, unobstructed gas flow.

Liquid/Liquid Separation

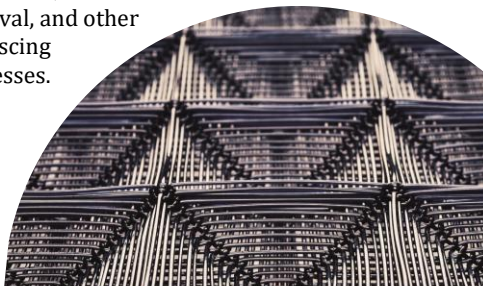
BlueFil® also functions as a coalescing filter, ideal for oil separators and other liquid/liquid separation applications. Its large surface area allows small particles to merge into larger droplets, which can then be collected efficiently.

Scrubber Packing

BlueFil® media can be used as packing in scrubbers for air pollution control. Its structure improves contact between the gas and liquid phases, enhancing mass transfer. BlueFil® is particularly effective in cross-flow scrubbers and can help recover valuable materials for reuse.

Coalescing

The meticulously woven BlueFil® structure promotes particle coalescence, making filtration and separation more effective. Applications include oil/water separation, fine aerosol removal, and other coalescing processes.



Ready to Optimize Process?

Contact us to develop your custom
BlueFil® solution.



fertilizer



chemicals



CCUS



metallurgical



water treatment



hydrogen



semiconductors



chrome plating

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bluefil.com



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