

## MIST-ELIMINATOR

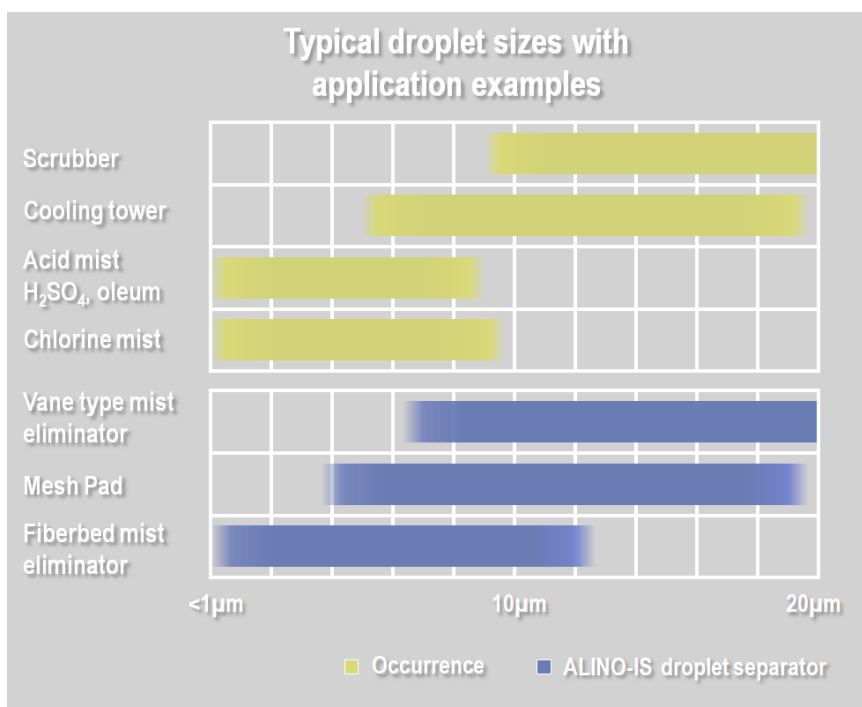
### Finest droplet separators

Alino Industrieservice provides professional and customized solutions for mist elimination as well as the separation of hydrocarbons from water and vice versa.

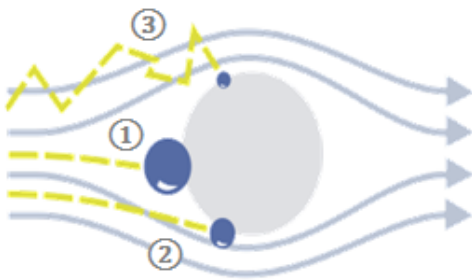
Droplet separators are widely used in the chemical and petrochemical industries. We find the best solution for you, depending on aerosol size, desired efficiency as well as removal rate and product recovery.

### Fiberbed-Mist-Eliminator-Elements

The Fiberbed-Mist-Eliminator, offer the finest separation performance compared to other droplet separators.



With a wide range of products we offer customized solutions for every degree of fineness – for best results in your process.



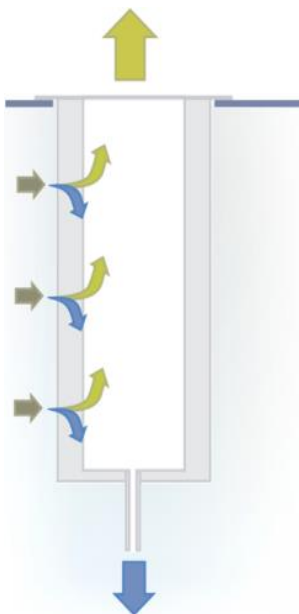
Special fibers are the heart of our fiberbed mist eliminators. Fabricated with highest precision and supported by a solid cage the special fibers are able to reliably remove even submicron particles. Droplets bigger than  $1\mu\text{m}$  are removed by impact ① or interception ②.

By using the Brownian Motion of the molecules our candles achieve outstanding separation rates even for aerosols smaller than  $1\mu\text{m}$  ③. Removal of the submicron particles due to Brownian Motion is independent of gas velocity. Therefore these candles have an excellent efficiency in that particle range even when the plant is operating in partial load.

ALINO-IS fiberbed mist eliminators achieve outstanding separation efficiencies:

- Droplet size  $> 3$  microns: 99,9 percent
- Droplet size  $< 3$  microns: 99,5 percent

## Process integrated product recovery



Fiberbed mist eliminators recover your expensive fluids already in the production process – lowering your costs and losses and increasing your gains.

### “End of pipe“ : environment protection

For highest cleanness and process reliability fiberbed mist eliminators clean exhaust streams from impurities to meet highest ecological standards. No oil mists or bluish exhaust plume.

## Industrial applications

Demister or fiberbed candles are widely spread in many Industries.

- Oil mist eliminators  
(e.g. turbine technology)
- Acid mist removal (oleum, fuming acids)
- Chlorine gas demister  
(wet- and dry-chlorine)
- Exhaust streams (removal of exhaust visualizations)
- And many more...



Vessel and elements from ALINO-IS are of highest efficiency and specially designed for your process.

### Fiberbed materials

- Special glass fiber
- Special polypropylene fiber
- Special polyester fiber
- Special carbon fiber
- Woven special fiber

### Cage materials

- Carbon Steel
- Stainless Steel
- Special alloys
- PVDF (Polyvinylidenfluoride)
- PP (Polypropylene)
- FRP (fiber reinforced plastic)

After use, our fiberbed mist eliminators can be refurbished and used again. In order to guarantee the best possible separation, the elements should be refurbished every 5 years.

## Mist eliminator vessel

All our demisters are available as original replacements or fully operational turn-key solutions.

The number of necessary inserts, and thus the size of the apparatus, depends on the volume flow of the gas flow to be cleaned and the desired pressure drop.

Because the droplet separator elements can be used for several years, the operation of the unit is cost-effective and requires little maintenance. The elements should be protected against insoluble particles in order to operate them for as long as possible.



Finest droplet separators are individually designed and manufactured according to your wishes and specifications.



If you have any questions please do not hesitate to contact us. You can find us on the Internet at [www.ALINO-IS.de](http://www.ALINO-IS.de).

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DIN EN ISO 9001