

Fiberbed Mist Eliminators / Candle filters

Construction Materials

Fiber bed mist eliminators are made out of dense layers of micron size fibers placed between two concentric cylindrical cages.



Various fibres can be used;

- chemical resistant glass fibres
- polyester
- carbon fibres

The cages are available in:

- Stainless steel
- Carbon steel
- Special alloys
- FRP
- PVDF
- PTFE
- Polypropylene

Typical Applications

- Metallurgical acid plants
- Spent acid plants
- Ammonia scrubbing
- Ammonium nitrate
- Lube oil vent from compressors
- Digesting of wood pulp
- Chlorine Industry

Characteristics

Fiberbed Mist Eliminators are high efficiency separators that are able to collect droplets at submicron level. They are available as cylindrical elements and can be manufactured in a broad range of materials.

Fiberbeds are produced as a dense packing of fiber (glassfiber, polyester fiber, carbon fiber) assembled between two concentric screens, foreseen of a flange on top or bottom for installation on a tube sheet. The elements are normally manufactured in one piece and can be installed through a manhole or vessel open end.

The Diffusion type candles (DC) use Brownian Diffusion, interception and impaction as their collection mechanism and can collect essentially 99.95% of all submicron