

Demister pads

MTE Process technology



Demister pads provide effective mist elimination compatible with normal packed column operation. For high gas velocities or low pressure drop requirements, we also supply vane type demisters.

The pressure drop of the demister pad is very low due to the large free volumes, even at higher velocities. It rises almost proportional with the thickness of the package and acts nearly proportional to its density (with the same wire diameter and knitted wire mesh specification). Liquid load, viscosity, wetting behaviour of the liquid, as well as the contamination level of the gas stream (solid particles) have a strong influence on the pressure drop.

Applications

- » Scrubbers, absorbers
- » Distillation and rectification columns
- » Evaporation and pressure reducing plants, knock-out drums
- » Vacuum and compressed air systems
- » Sea water desalination plants
- » Oil and emulsion mist separators

Benefits

- ✓ High separation efficiency
- ✓ Low pressure drop
- ✓ Easy installation and low in maintenance
- ✓ High resistance to fouling

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Specifications metal wire mesh demisters

Type	Density	Surface area	Voidage
	<i>kg/m³</i>	<i>m²/m³</i>	<i>%</i>
MTE-80-SS-0.28	80	145	99.0
MTE-110-SS-0.28	110	200	98.6
MTE-130-SS-0.28	130	236	98.3
MTE-145-SS-0.28	145	265	98.1
MTE-175-SS-0.28	175	320	97.8
MTE-192-SS-0.28	192	350	97.5
MTE-240-SS-0.28	240	435	97.0
MTE-240-SS-0.14	240	868	97.0
MTE-240-SS-0.12	432	1835	94.5

Available materials

- » SS304L
- » SS316L
- » SS904L
- » SS321
- » SS310
- » SS410
- » Ni
- » Ti Gr.2 & Gr.7
- » Cu
- » PP
- » EFTE
- » PDVF
- » Other materials on request

Specifications plastic wire mesh demisters

Type	Density	Surface area	Voidage
	<i>kg/m³</i>	<i>m²/m³</i>	<i>%</i>
MTE-50-PP-0.40	50	550	94.5
MTE-80-PP-0.40	80	770	92.3
MTE-100-PP-0.40	100	1100	89.0
MTE-100-PP-0.22	100	2200	89.0
MTE-80-PVDF-0.27	80	665	95.5
MTE-100-ETFE-0.27	100	870	94.2

MTE has the knowledge to design, debottleneck and optimize vapor liquid separators alias flash drums with a combination of knock-out equipment like baffles, half open feed pipes or vane inlet devices in combination with demister pads for more efficient removal of droplets.

For additional information, support or (special) requests, please contact our sales department.