



宁波天一化工有限公司

Ningbo TianYi Chemical Industrial(T.C.I) Co., Ltd

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### Knitted wire mesh demister



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(or mist eliminator) is mainly used to separate drops of the diameter between 3µm to 5µm, the operating principle is showed in the fig at the right side. When the gas with liquid drops rises at a certain speed, passing through the wire mesh on the grid bar, the inertia of the rising drops make them collide with the wire and then adhere to the surface of the wire. The drops on the wire will diffuse and subside. It makes the drops form bigger ones and then flow along the wire to the intertexture of the wire. Because the wire can be humidified, and because of the surface tension of liquid and the capillarity effect of the wire, the drops will become bigger and bigger. They will be separated and fall when their own weight exceed the resultant force of buoyancy of the rising gas and surface tension of liquid. They will flow to the device of the container in the backward position. As long as the speed of the gas is properly controlled and with other proper condition, the efficiency of foam remove will be as high as 97% after the gas pass through wire-mesh demister. The purpose of removing foam will be achieved completely.

Material of our made **Knitted wire mesh demister**

Q235-A	Q235-A
Steel 20	Steel 20
0Cr18Ni9	SS304
00Cr19Ni11	SS304L
0Cr17Ni12Mo2	SS316
0Cr17Ni14Mo2	SS316L
0Cr19Ni10Ti	SS321
0Cr19Ni13Mo3	SS317
0Cr25Ni20	SS310
1Cr25Ni20Si2	SS310S
00Cr20Ni25Mo4.5Cu (N08904)	SS904L
0Cr23Ni13	SS309S
Brass	Brass wire
Bronze	Bronze wire



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Nickel	Nickel wire
Titanium	Titanium wire
PVC	PVC
PE	PE
Polypropylene	PP
Teflon	PTFE
FEP	FEP
PFA	PFA
ETFE	ETFE
PVDF	PVDF
Hastelloy alloy	Hastelloy alloy
Inconel	Inconel
Monel	Monel
Stainless steel wire with Fiber glass	Stainless steel wire with Fiber glass
Stainless steel wire with PP	Stainless steel wire with PP
Stainless steel wire with PTFE	Stainless steel wire with PTFE
Stainless steel wire with PVDF	Stainless steel wire with PVDF

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