

Both light and catalyst are needed to achieve or accelerate a chemical reaction. Therefore, photocatalysis can be defined as the acceleration of a photo-reaction by a catalyst.

Catalyst image:

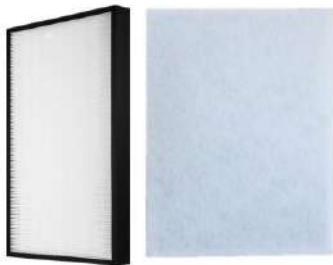


Result of the application: *Oxidation of organic pollutants by magnetic particles coated with nanoparticles of titanium dioxide and stirred by a magnetic field when exposed to ultraviolet light.*

HEPA H13 AIR FILTER

One of our most effective bacteria control methods is using high-efficiency HEPA air filters that retains 99.97% of airborne particles and bacteria.

HEPA is the acronym for High Efficiency Particle Arresting. It is a large capacity filter that can trap a large quantity of micro particles such as pollen, bacteria, dust, and that is positioned as one of the best and most effective air purifiers on the market thanks to its high efficiency and effectiveness. In VELTIA our model is the H13.



SPECIFICATIONS:

TEST	UNITS	MIN	STD	MAX	NOTES
Basis Weight	g/m ²	68	72	76	TAPPI T410
	lbs/3000 ft ²	41,8	44,2	46,6	
Thickness	mm	0,32		0,36	TAPPI T411
	inches *	0,013		0,014	
Tensile MD	N/m	900	1150		TAPPI T404
	gr/inch.	2300	2940		
Stiffness MD	mg	900	1100		TAPPI T543
LOI	%			8	30' @ 520 °C
Pressure Drop	Pa		280	310	@ 5,33 cm/s
DOP Penetration	%		0,01	0,03	@ 0,3μ 5,33 cm/s
Efficiency	%	99,97	99,99		@ 0,3μ 5,33 cm/s
Efficiency MPPS @ 3,2 cm/s	%	99,95			EN 1822
Water Repellency	Inch. W.G. *	16			Mil. Std 282 (Q-101)
	mm H ₂ O	400			
	Kpa *	3,92			