

# DIFFUSION MEDIA FF-500 G (M5)

- **FINAL FILTRATION BARRIER** to paint damaging particles from the air intake stream
- **SELF EXTINGUISHING ACCORDING DIN 53438-F1**
- **100% ADHESIVE SATURATION FOR MAXIMUM PROTECTION**
- **QUALITY ASSURANCE ACCORDING EN 779:2012**

## DESCRIPTION

Fine air filtration media specifically designed to be used in down-draft paint spray booths as final filtration barrier to all paint damaging particles from the intake air stream. This ceiling filter or diffusion Media ensures a uniform air distribution and a laminar airflow throughout the spray booth, when applied in paint spray and surface treatment facilities. Synthetic fiber-based filter media developed and manufactured at Filtrair's high-tech media plant based in The Netherlands.

This filter media is constructed from selected high performance, nonbreakable fibers in a progressive density multi-layering technique allowing high depth loading to ensure high dust holding capacity with optimal lowest pressure drop performance.

This media is thermally bonded and impregnated in full depth with a special tackifier coating to prevent any release of fibers and migration of paint damaging particles larger than 10 microns due to vibration in the system, even under varying temperature conditions.

The result is satisfactory fractional efficiency combined with a high dust loading capacity, a long filter life as well as low energy and maintenance costs. In addition, this Diffusion Media has a particularly interesting cost-performance ratio for a very competitive advantage in the automotive repair after markets and all kinds of surface treatment facilities in other markets.

## FLAMMABILITY RATINGS

Filtrair FF-500 G conforms to European Union fire classification standards (DIN 53438-F1) and is self-extinguishing. It is resistant to evaporated solvents and is manufactured in a 100% silicone-free environment.

## QUALITY ASSURANCE

Constant quality is assured by quality control testing according to EN-779:2012. The M5 filter class is imprinted on the media.

## FEATURES AND BENEFITS

- **FULL PENETRATION OF SPECIAL ADHESIVE** prevents any release of fibers and migration of particles larger than 10 microns.
- **GRADIENT DENSITY STRUCTURE** ensures a uniform air distribution and a laminar flow throughout the spray booth.

## APPLICATIONS

This quality and most economical Filtrair diffusion media is specially designed to be used in the ceiling of paint spray and surface treatment facilities in the automotive repair industries and many other industries. The media enhances a uniform air distribution and a laminar air flow. Further, it acts as the final filtration barrier to paint damaging particles to ensure quality surface finishes.

With its optimal cost-performance ratio this versatile Diffusion Media offers a unique competitive advantage in all applications and markets.

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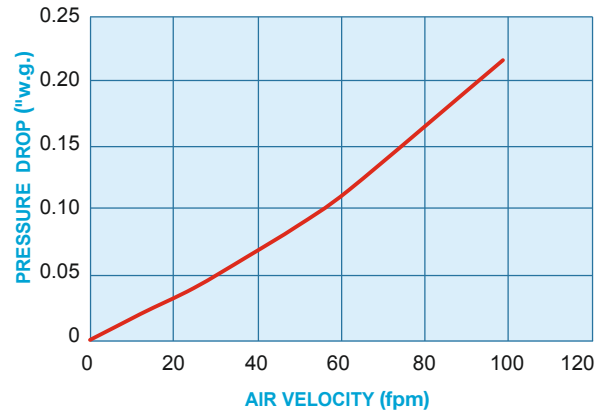
## TECHNICAL DATA

Product	Unit	FF-500 G
Rated air flow	cfm	530
Air velocity	fpm	50
Initial pressure drop	"w.g.	0.09
Final pressure drop	"w.g.	1.81
Filter class per EN779:2012	-	M5
Average Arrestance	%	95
Average Efficiency (@0.4 μm)	%	41
Dust holding capacity (Ashrae dust) 450 Pa	oz/ft <sup>2</sup>	144

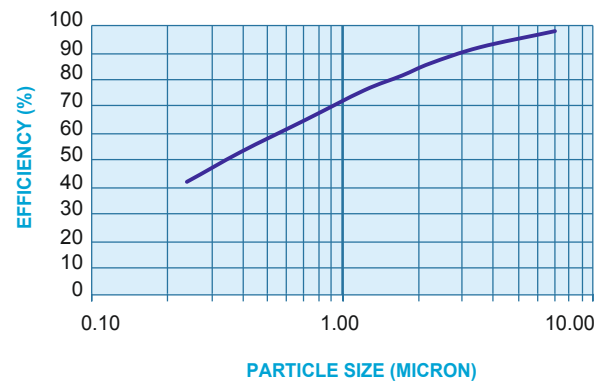
## APPLICATION PARAMETERS

Product	Unit	FF-500 G
Temperature resistance, constant	°F	≤ 200
Temperature resistance, short peaks	°F	< 350
Nominal thickness	inch	0.87
Relative humidity	%	100
Regenerable/washable	-	no
Roll sizes standaard		40" x 67'
		80" x 67'

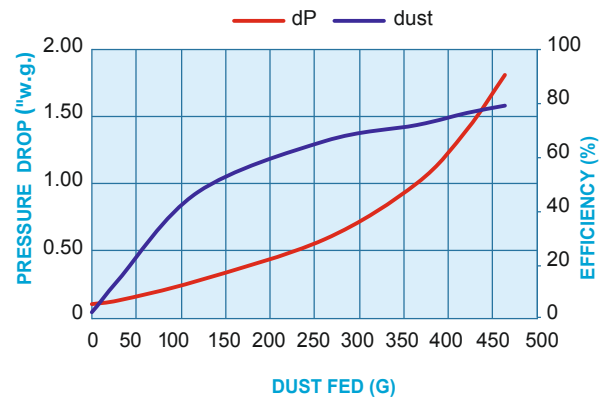
## PRESSURE DROP vs AIR FLOW RATE



## FRACTIONAL PARTICLE SIZE EFFICIENCY



## DUSTLOADING vs PRESURE DROP vs EFFICIENCY



All data are average indicative values with usual manufacturing and testing tolerances. We reserve the right to modify performance data without prior notice. Specific performance data will require our written confirmation. Filtrair® is the registered trade mark of Filtrair bv.

