

DIFFUSION MEDIA

FF-500 G

- **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 ISO 16890**

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 multilayering 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 ISO 16890. The 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.

DIFFUSION MEDIA FF-500 G

TECHNICAL DATA

Product	Unit	FF-500 G
Air velocity	m/s	0,25 - 0,5
Initial pressure drop @ 0,25 m/s	Pa	22
Recommended final pressure drop	Pa	450
ISO A2 fine up to 300 Pa @ 0,5 m/s	g/m ²	500
Filter class per EN779:2012	-	M5
Filtrair migration class	-	R0

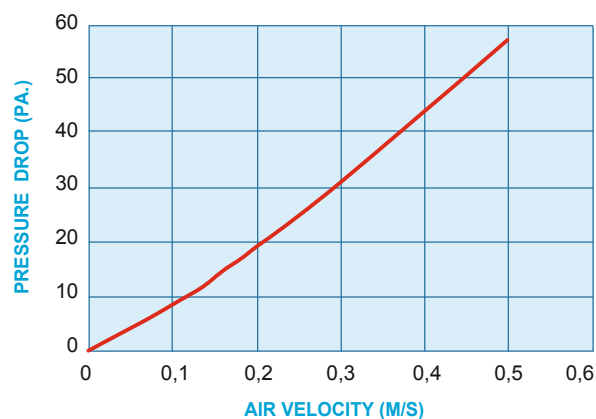
ISO 16890 TECHNICAL DATA

Class To ISO 16890 @ 0,5 m/s	-	ePM10 50%
Particulate matter efficiency		
ISO ePM _{1,0}	%	3
ISO ePM _{2,5}	%	10
ISO ePM ₁₀	%	50

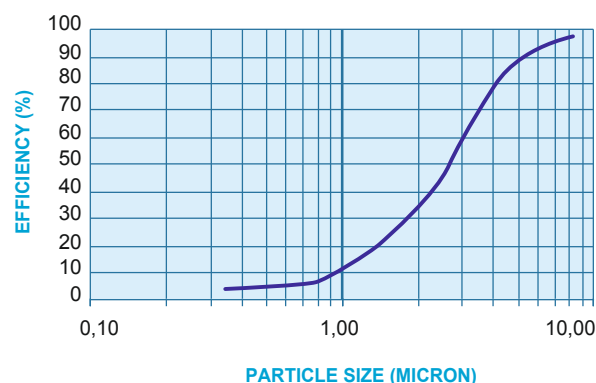
APPLICATION PARAMETERS

Temperature Resistance	Up to 100°C
Temperature Resistance Short Peaks	Up to 180°C
Nominal Thickness	20 mm
Relative Humidity	100%
Standard Roll Sizes	2 m x 20 m 1 m x 20 m

PRESSURE DROP vs AIR FLOW RATE



FRACTIONAL PARTICLE SIZE 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.

