

# DIFFUSION MEDIA

## CC-600 G

- **FINAL FILTRATION BARRIER** to paint damaging particles from the air intake stream
- **UL CLASS 1** and self extinguishing according **DIN 53438-F1**
- **100% ADHESIVE SATURATION FOR MAXIMUM PROTECTION**
- **R0 RATING ON PARTICLE MIGRATION**
- **HIGH TEMPERATURE RESISTANT SCRIM** up to 180°C
- **QUALITY ASSURANCE DIN CERTCO REGISTRATION NUMBER**

### DESCRIPTION

Fine air filtration media specifically designed to be used in down-draft paint spray booths as the 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 an all round laminar flow throughout the spray booth when applied in auto assembly plants and auto refinishing facilities as well as in the repair after markets.

Synthetic fiber-based filter media developed and manufactured at Filtrair's high-tech media plant based in The Netherlands. The 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 5 microns due to vibration in the system, even under varying temperature conditions.

CC-600 G is classified as R0 in accordance with the Filtrair migration test (see back page). This results in high fractional efficiency combined with a high dust loading capacity, a long filter life as well as low energy and maintenance costs.

### HIGH TEMPERATURE SCRIM

The clean air side is particularly dense and smoothed. It is reinforced with a high temperature resistant and supporting woven open-mesh scrim. The temperature resistance of this special scrim is up to 180°C to prevent any discoloration.

### FLAMMABILITY RATINGS

Filtrair CC-600 G conforms to German fire classification standards (DIN 53438-F1) and is self-extinguishing. It is resistant to evaporated solvents and manufactured in a 100% silicone-free environment.

### QUALITY ASSURANCE

Constant quality is assured by independent quality control testing according to ISO 16890 and by DIN CERTCO. The DIN-Logo with Filtrair's registration number PFE036/12, the filter class and the Filtrair Logo with Brand Name are all imprinted on the media.

### FEATURES AND BENEFITS

- **APPROVED BY MAJOR AUTOMOTIVE MANUFACTURERS** so it can be used with complete confidence.
- **FULL PENETRATION OF SPECIAL ADHESIVE** prevents any release of fibers and migration of particles larger than 5 microns.
- **GRADIENT DENSITY STRUCTURE** ensures a uniform air distribution and a laminar flow throughout the spray booth.
- **APPROVED ACCORDING DAIMLER-CHRYSLER AND VOLKSWAGEN LACQUER TEST SPECIFICATIONS** by IPA Fraunhofer Institute.

### APPLICATIONS

This top quality Filtrair ceiling or diffusion media is specially designed to be used in the ceiling of paint spray facilities in auto assembly plants and down draft spray cabins of auto refinishing facilities as well as in paint spray booths of the repair after markets.

This media enhances a very uniform air distribution and an optimal laminar air flow. Further, it acts as the final filtration barrier to paint damaging particles from the air stream which is an absolute requirement for high gloss and high-tech performance finishes.

# DIFFUSION MEDIA CC-600 G

## TECHNICAL DATA

Product	Unit	CC-600 G
Rated air flow	m <sup>3</sup> /h/m <sup>2</sup>	900
Air velocity	m/s	0,25
Initial pressure drop	Pa	30
Final pressure drop	Pa	450
Filter class per EN779:2012	-	M5
Average Arrestance	%	98
Average Efficiency (@0,4 µm)	%	57
Dust holding capacity (Ashrae dust) 450 Pa	g/m <sup>2</sup>	509
Filtrair migration class		R0

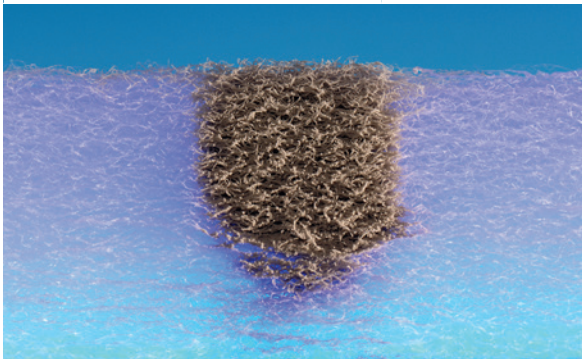
## ISO 16890 TECHNICAL DATA

Product	Unit	CC-600 G
Class To ISO 16890		ePM10 55%
Particulate matter efficiency		
ISO ePM <sub>1,0</sub>	%	3
ISO ePM <sub>2,5</sub>	%	8
ISO ePM <sub>10</sub>	%	55

## APPLICATION PARAMETERS

Product	CC-600 G
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

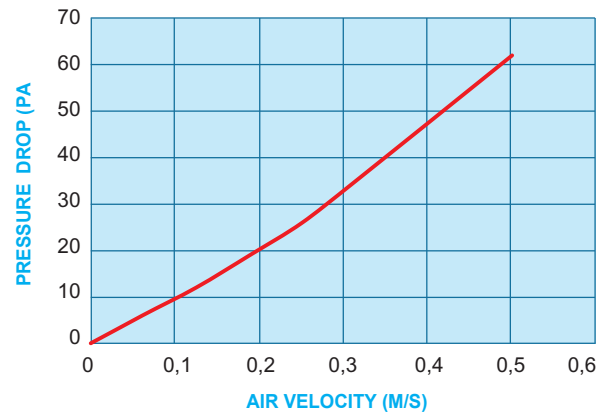
## FILTRAIR MIGRATION TEST



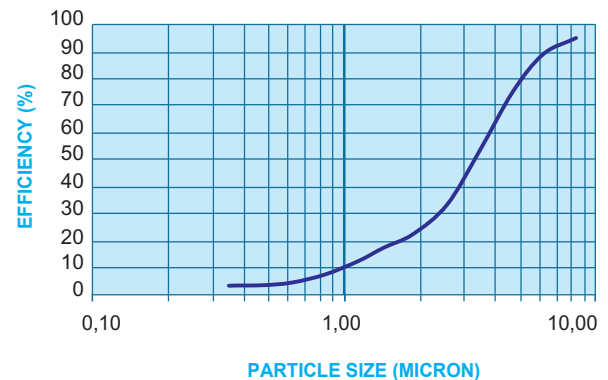
Filtrair Migration Test Classes	No. of particles(*)
R0	< 100
R1	< 1.000
R2	< 10.000
R3	< 100.000

(\*) Number of particles larger than 10 microns per cubic meter counted on the clean air side

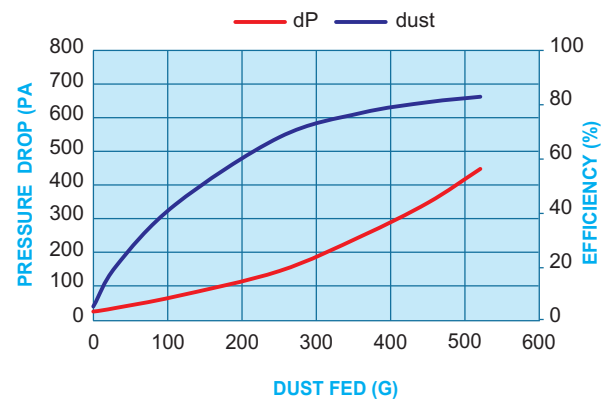
## PRESSURE DROP vs AIR FLOW RATE



## 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.

