

# VISKON-AIRE\*

## Air Filter Products

### T-700/G Diffusion Media

Viskon-Aire\*T-700/G diffusion media is manufactured from high quality synthetic polyester resin. The media is progressively structured and the fibers are thermally bonded to eliminate fiber migration. The media is treated with a proprietary tackifying process that treats all of the fibers to ensure high particle collection efficiencies while eliminating particle migration of paint damaging particles regardless of the vibration typically found in autobody or industrial automotive spraybooths. The diffusion pad or panel filter utilizes the perfect balance between efficiency and pressure drop to optimize performance over the life of the filter.



The T-700/G diffusion is designed to assure the correct pressurization of the spraybooth plenum to ensure even laminar air flow cross the surface area of the spraybooth.

The Visikon-Aire\* T-700/G diffusion media can be used in automotive body shops, automotive assembly plants, aerospace facilities, heavy truck, farm equipment, furniture manufacturing, or any other surface finishing environment that requires "dust free finishes!"

The Visikon-Aire\* T-700/G diffusion media has been tested to ASHRAE 52.2-2012 test standard.

Performance	Results
Pressure Drop @ 100 FPM	0.18" w.g. ( 45 Pa)
Particle Size Efficiency @ 10µm	>100%
Particle Migration Test Rating:	SO Test Class 10µm
ASHRAE 52.2-2012	ASHRAE MERV 7
Media Thickness:	7/8 Inch (22 mm)
Media Weight:	500 grams/m <sup>2</sup>

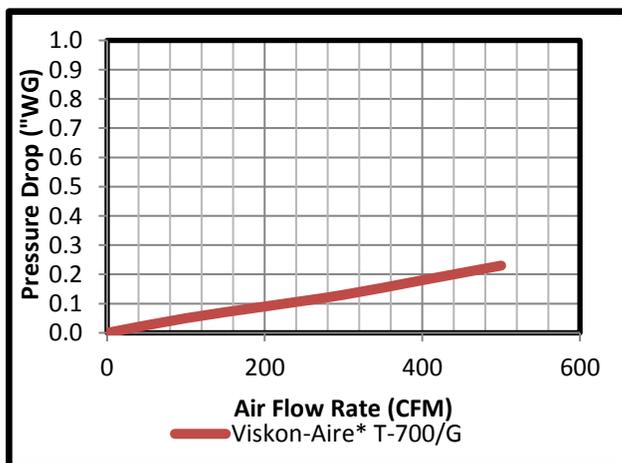
#### T-700/G Diffusion Media Benefits:

- 99% efficiency on 5µm particles (PMT Test)
- Progressive media structure
- Strong particle retention
- Self-extinguishing media
- Scrim backing to eliminate fiber migration
- 100% RH resistance
- Continuous Temperature 212°F (60°C) Peaks 250°F

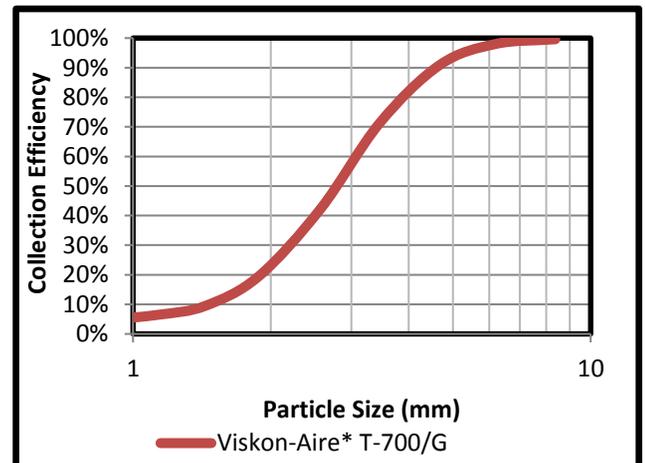


**Particle Migration Test Class (PMT) T-700/G**  
 10µm SO Test Class Efficiency, 99.91%  
 5µm S1 Test Class Efficiency, 99.82%

#### Pressure Drop Curve



#### Particle Size Efficiency



**"When Clean Air is Critical"**

## Performance Technical Data:

Viskon-Aire* Model Number	MERV Rating EN779	Capacity FPM (m <sup>3</sup> /hr)	Initial Pressure Drop inches w.g. (Pa)	Particle Migration Test (PMT)
T-700/G	7	50 FPM (50 M <sup>3</sup> /min)	0.07" w.g. (17 Pa)	SO 99.91% 10µm SO 99.91% 5µm
T-700/G	7	100 FPM (100 M <sup>3</sup> /min)	0.18 w.g. (45 Pa)	SO 99.82% 10µm SO 99.82% 5µm

## Performance Data Notes for Viskon-Aire\* Filters:

1. Pressure drop represents inches of water (0.18" w.g.) at 100 FPM, at 50 FPM (0.07" w.g.) with the filter being in a clean condition at 400 CFM or 100 FPM. Final pressure drop is recommended to 1.0" w.g., however, it is recommended that the pressure drop change out point should be selected on the basis of life cycle costing that best optimizes conditions in the spraybooth.
2. Efficiency is based upon ASHRAE Test Standard 52.2-2012
3. The Particle Migration Test (PMT) is conducted in a vertical test duct to better simulate actual operating conditions as found in a downdraft spray booth. Particle counting is conducted downstream while the pad is in a horizontal position.
4. Note: Viskon-Aire\* T-700/G downdraft diffusion media can be purchased in pads or standard heat welded, self-supporting panel filters for any standard downdraft or crossflow application.

## Viskon-Aire Particle Migration Penetration Testing (PMT)

When "Clean Air is Critical" Viskon-Aire tests their diffusion filters in two ways to ensure that you have the best product on the market. To ensure "Dust Free Finishes" Viskon-Aire has two test protocols, ASHRAE 52.2-2012 as well as the *Particle Migration Test (PMT)* which tests the retention behavior of our product offerings in the surface treatment market. The PMT test stresses the diffusion pad or panel with AlO<sub>2</sub> with free running white aluminum oxide particles (ASTM F7-95 (2011)) as the challenge aerosol using a vertical test duct to determine penetration efficiency of the pad or panel filter, using 52.2 based protocols conducted by independent laboratories.

Of the two tests, the Particle Migration Test (PMT) simulates the actual operating conditions found in today's modern automotive spraybooths, whether automotive assembly plants or autobody shops, vibrations of the diffusion media overtime can cause particles to migrate through the media structure damaging your surface finish. Viskon-Aire's T-700/G progressively structured media and tackification process ensures the retention of collected particulate and the protection of your painted parts with a dust free finish.

## Product Shipping & Packaging Information:

Filter Size	Size (mm)	Weight Lbs (kg)	Packaging	Carton Dimensions Inches (mm)
T-700/G Cut Pads	All Standard Sizes	TBD	TBD	TBD
T-700/G Bulk Rolls	80"x67' (2032 x 20,421)	50 (22.7)	Plastic Bag	Plastic Bag
T-700/G Self-Seal Panel Filter	24 x 24 x 1 (610 x 610 x 25.4)	28 lbs (12.7 kg)	20/case	27" x 27" x 17" (686 x 686 x 432)
T-700/G Self-Seal Panel Filter	20x20x1 (508 x 508 x 25.4)	23 lbs (10.4 kg)	20/case	22"x 22"x 22" (559 x 559 x 559)

**Note: Slit rolls available, all standard self-seal panel filters available**

Viskon-Aire Corporation has a policy of continuous research & development and reserves the right to change the design and specifications without notice.

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