

R1 / R1SC

DIFFUSION MEDIA

ROLL GOODS, CUT PADS,
PANELS & LINKS

viledon®

FILTER TYPE	TEST STANDARD
R1	ASHRAE 52.2
R1SC	ASHRAE 52.2



The application

R-1 and R1SC media are designed by Viledon® for air make-up of paint spray booths or prefiltration for high efficiency final filters. The multiple synthetic layers combine a prefilter consisting of a high performance cover mat with a final filter of progressively structured media, thermally bonded and treated with a proprietary tackifier.

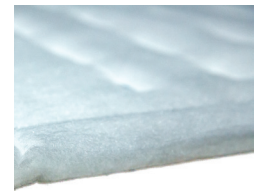
- Progressive media density enhances particle collection efficiency and life of filter
- Viledon®'s proprietary scrim eliminates fiber migration to ensure a mirror-smooth finish
- Viledon®'s media is thermally bonded and tackified

The characteristics

- R1-R1SC bulk rolls, cut pads, self-supporting panels and links are designed for 95% efficiency on 10 micron particles and larger.
- R1-R1SC bulk rolls, cut pads, self-supporting panels and links offer superior

filtration of supply air to paint spray booths where controlled laminar flow is a requirement.

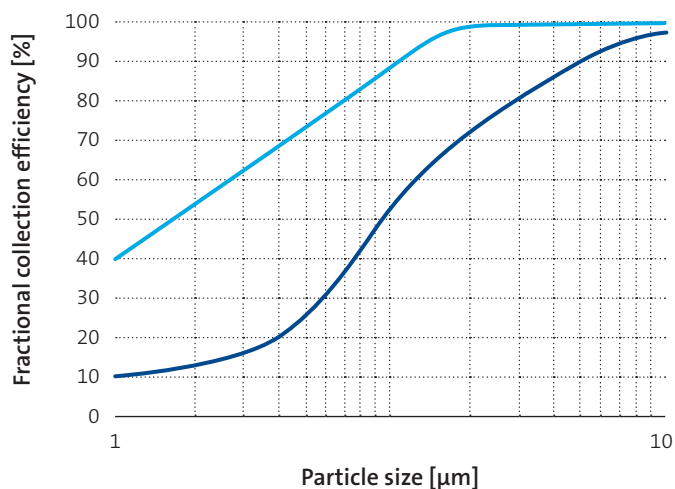
- R1-R1SC bulk rolls, cut pads, self-supporting panels and links have a proprietary tackifier completely encapsulating all fibers eliminating particle migration due to mechanical vibrations associated with paint spray booths.
- R1-R1SC series is environmentally friendly, designed to comply with most landfill regulations.
- R1-R1SC has a nominal thickness of .75".
- R1-R1SC panels are designed with 10 gauge steel support frame sealed between media layers, using durable RF (radio frequency) welding procedures.
- The SC signifies the scrim option on the air leaving side, enhancing mechanical integrity.
- UL 900 Classified.
- Temperature resistance: Continuous: 212°F, peaks at 250°F.



GEOMETRIES AVAILABLE		R1	R1SC
Weight	g/m2	350	350
Thickness	in	.71	.71
Thermal stability	°F	212	212
Bulk Rolls	roll	70" x 98' 4"	83" x 98' 4"
Cut Pads	each	All standard sizes. Special sizes available upon request.	All standard sizes. Special sizes available upon request.
Panels & Links	each	All standard sizes. Special sizes available upon request.	All standard sizes. Special sizes available upon request.

TECHNICAL FILTER TEST DATA TO ASHRAE 52.2

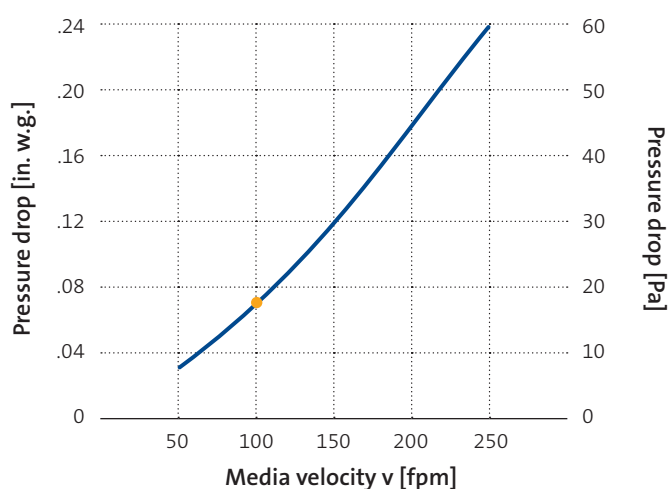
Fractional collection efficiency in new condition



— R1 & R1SC NEW MEDIA — R1 & R1SC LOADED WITH 250 G/M² AC-FINE*

* Tested at media velocity of 100 FPM
Aerocol: Potassium Chloride Laser particle counter..

Pressure drop plotted against the media velocity



— R1 & R1SC • Nominal volume flow rate

KEY DATA		R1	R1SC
Nominal media velocity	• fpm	100	100
Initial pressure drop	in. w.g.	.07	.07
Average efficiency on particles >10 micron	%	95	95

* For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the final pressure drop stated. It can also be exceeded in certain applications.

The figures given are mean values subject to tolerances due to normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

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