



# AIR FILTER TESTING LABORATORIES, INC.

4632 Old LaGrange Road • Buckner, Kentucky 40010

Phone (502) 222-5720 • Fax (502) 222-9881

## ASHRAE STANDARD 52.1-1992 STATICALLY TESTED DEVICES

### DEVICE TESTED

**REPORT NO.**  
**13812**

**TEST NO.**  
1

**SHEET NO.**  
1

Test Requested By	MYER FILTER COMPANY
Manufacturer	MYER FILTER COMPANY
Test Sample Procurement	FURNISHED BY MANUFACTURER
Product Name	CONICAL AIR INTAKE FILTER
Model No.	38 0003
Dimensions	324/445 mm O.D. X 213/330 mm I.D. X 692 mm LG. (NOMINAL)
Product Description	

### TEST RESULTS - see attached performance curves

Test Airflow Rate	745	ft <sup>3</sup> /min (cfm)
Initial Resistance	0.49	in. w.g.
Final Resistance	4.00	in. w.g.
Initial Atmospheric Dust Spot Efficiency	51.3	%
Average Atmospheric Dust Spot Efficiency	98	%
Average SAE Fine Dust Weight Arrestance	100	%
SAE Fine Dust Holding Capacity	7733	g
Test Section Duct Size	610 X 610	mm
Test Dust	SAE FINE	
Test Dust Feed Rate	71.0	mg/m <sup>3</sup>

### PHYSICAL DESCRIPTION

Number Of Pleats	396	no. pleats
Face Dimension (Nom. O.D.)	324/445	mm O.D.
Face Dimension (Nom. I.D.)	213/330	mm I.D.
Face Dimension (Nom. Length)	692	mm LG.
Depth Dimension (Nom. Depth)	51	mm D
Media Area (Gross)	27.9	M <sup>2</sup>
Media Area (Net Effective)	21.5	M <sup>2</sup>
Inlet Open Area (IOA)	0.83	M <sup>2</sup>
Type Of Media	RESIN IMPREGNATED MIXTURE OF CELLULOSE & SYNTHETIC FIBRES	
Type And Amount Of Dust Adhesive	NONE	

**DATE**  
06-19-2009

**TEST SUPERVISOR**  
M.A.M.

**ENGINEERING**  
**APPROVAL**

*Kevin R. Singer, P.E.*





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## ASHRAE STANDARD 52.1-1992 - PERFORMANCE CURVES STATICALLY TESTED DEVICES

### PERFORMANCE CURVES

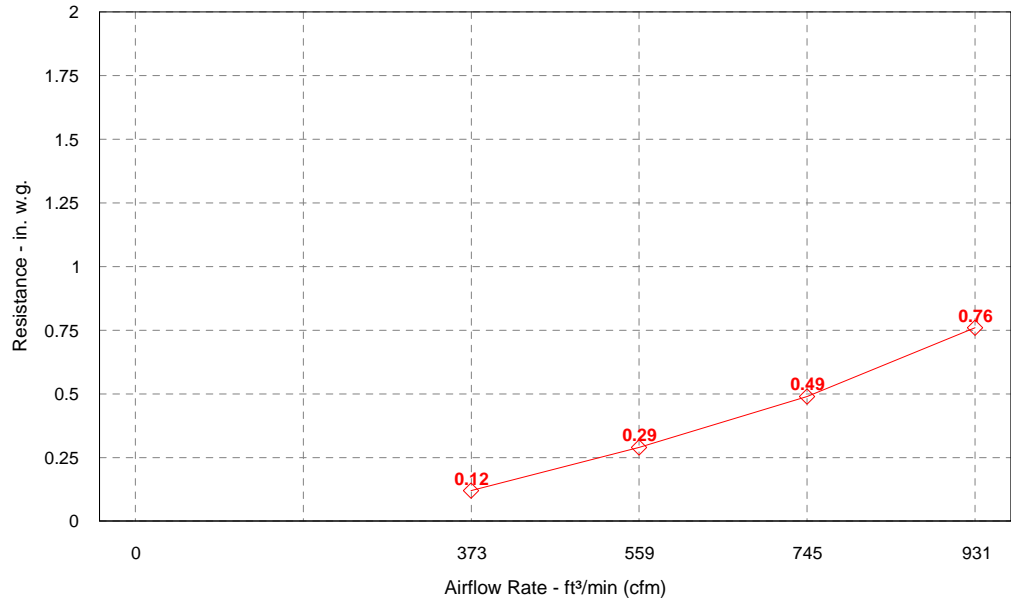
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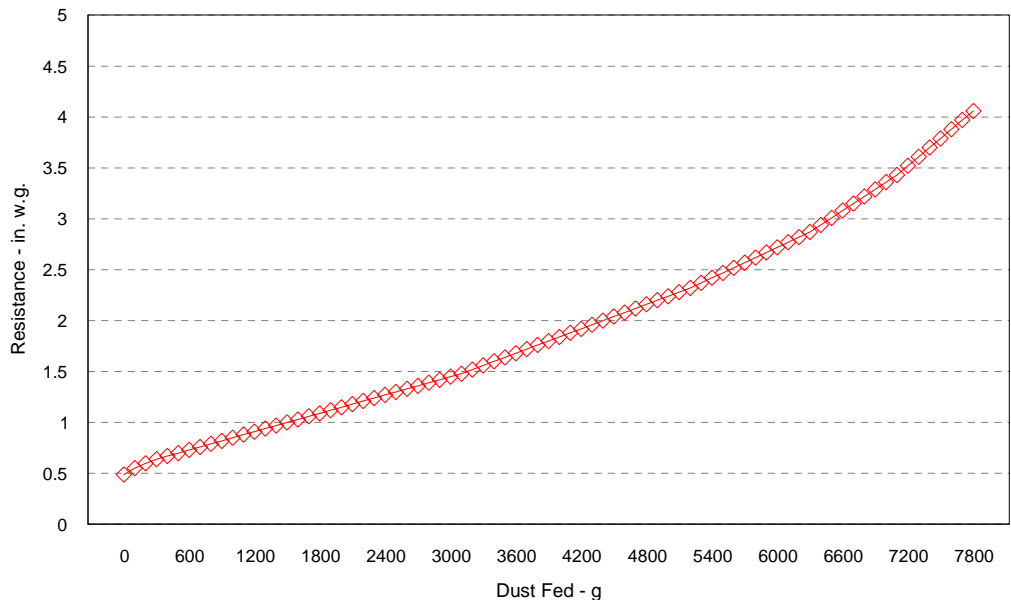
### CLEAN DEVICE

Airflow -vs- Initial Resistance



### DUST FED -vs- RESISTANCE

Dust Increment - 100 g SAE Fine



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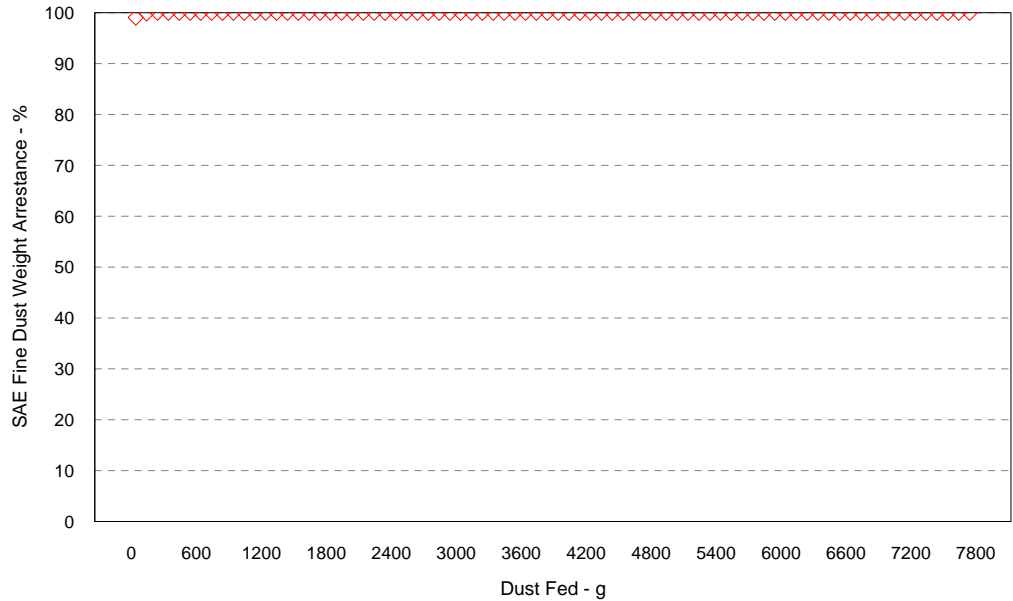
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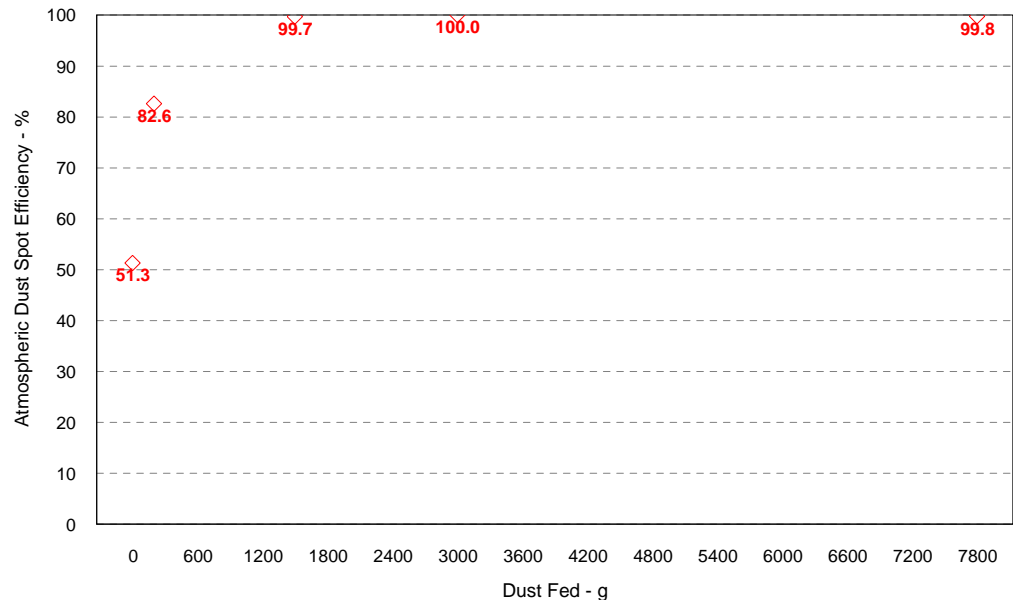
### DUST FED -vs- ARRESTANCE

Dust Increment - 100 g SAE Fine



### DUST FED -vs- ATMOS. DUST SPOT EFFICIENCY

Dust Increment - 100 g SAE Fine



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