



Better Air is Our Business®

AmericanAirFilter® SureStop™ 319Plus

Self-Sealing Two Pocket Cube Filter for Paint Overspray Collection

- Exceeds NESHAP requirements for use in existing aerospace paint booths
- Multi-layer design provides both high paint holding capacity, and high collection efficiency
- Self-sealing design provides fast, easy installation and removal
- Tapered pocket design maximizes the use of media in the filter, as well as provides ease of installation

Aerospace Applications

Because of the hazardous nature of the chromate paints used in painting aerospace vehicles and components, there are National Emissions Standards for Hazardous Air Pollutants (NESHAP) efficiency requirements for the filters used in these applications. The requirements are based on the EPA Method 319 Test, which is a particulate efficiency test using both a dry particulate (potassium chloride) and a wet particulate (oleic acid).

When tested per the EPA Method 319 Test protocol, the SureStop 319Plus filter exceeds the NESHAP requirements in existing 2-stage aerospace applications.

Multi-Layer Media Design

The media composition of the SureStop 319Plus filter consists of two, multi-layered pieces of media, and is designed for both high paint holding capacity as well as high efficiency on paint overspray particulate.

Pre-filter Layer - composed of a dual density, heavy duty, synthetic paint arresting media. The initial layer is a blend of four fiber sizes forming an open media for collecting large quantities of the overspray material. The second layer is a densified material made of a single fiber size providing a graded density material for added depth loading and structural support.

Efficiency Layer – composed of a polypropylene fine fiber layer, between two layers of polypropylene scrim material for increased strength and durability.



Self-Sealing Design

The finished filter is formed by sonically bonding the media around an internal wire support frame. The bonding of the media around the frame forms a built-in gasket between the wire support frame and holding frame that secures the filter in place and seals it to prevent bypass. The self-sealing design provides the fastest, easiest installation of any extended surface filter on the market.

Prefilters

The SureStop 319Plus 2-pocket cube filter meets the NESHAP requirements, as a freestanding filter. No specific prefilter media or filter is required. This provides the end user the flexibility to use the prefilter of their choice. AAF also offers a wide range of paper, paper/synthetic, and fiberglass paint arrestor products for use as a prefilter.

Engineering Data

Nominal Size (inches)	Standard Face Sizes	
	Actual Size ⁽¹⁾ (inches)	
12 x 24	11¼ x 23¼	
16 x 20	15¼ x 19¼	
16 x 25	15¼ x 24¼	
20 x 20	19¼ x 19¼	
20 x 24	19¼ x 23¼	
20 x 25	19¼ x 24¼	
24 x 24	23¼ x 23¼	

(1) Outside dimensions of internal wire support

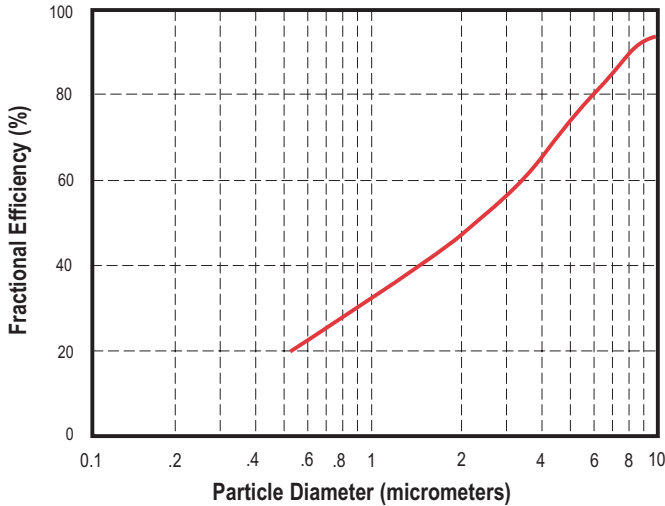
- All face dimensions available in 10", 15" and 20" depths
- Continuous operating temperature limits up to 150° F
- Underwriters Laboratories Classification: UL Class 2. Testing was performed according to UL Standard 900

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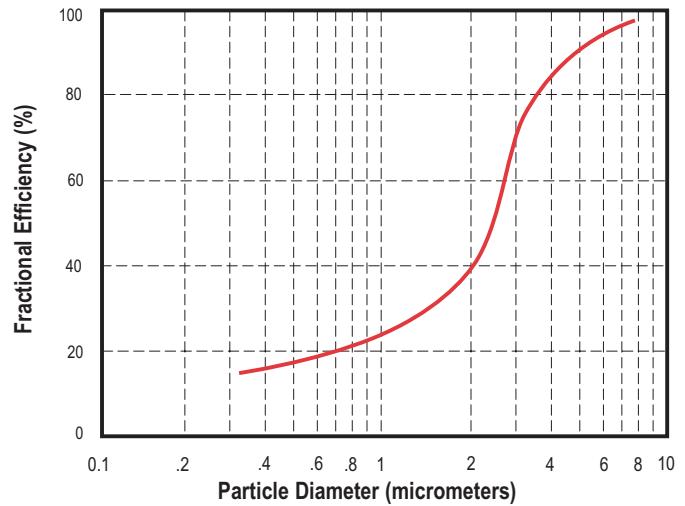
Operating Data

**Fractional Efficiency vs. Particle Diameter
(Solid Aerosol - Potassium Chloride)**



Solid Aerosol Phase - efficiency vs. particle size using neutralized potassium chloride (KCl) as the test aerosol. Tested in accordance with EPA 319 Test protocol.

**Fractional Efficiency vs. Particle Diameter
(Liquid Aerosol - Oleic Acid)**

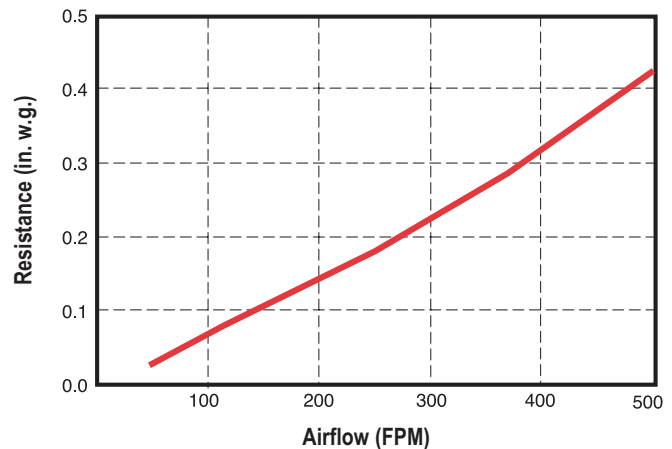


Liquid Aerosol Phase - efficiency vs. particle size using neutralized oleic acid as the test aerosol. Tested in accordance with EPA 319 Test protocol.

Paint Overspray Removal Efficiency and Paint Holding Capacity:

Filter Size:	20" x 20" x 15", 2 pocket
Total Paint Holding Capacity:	1276 grams
Average Removal Efficiency:	99.72%
Airflow Velocity:	120 FPM
Paint Description:	Courtaulds yellow fuel tank coating, 513x390 base + 910x624 activator
Spray Feed Rate:	107gr./min.
Paint Spray Method:	Conventional air gun @ 45 PSI

**Resistance to Airflow
24 x 24 x 15", 2 Pocket Filter**



AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

ISO Certified Firm

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