



Flanders offers several choices for NESHAP filtration systems. These systems comply with EPA (Environmental Protection Agency) Test Method 319 as it applies to the National Emissions Standards for Hazardous Air Pollutants (NESHAP). Reference 63 Fed. Reg. 59 (March 27, 1998) and 40 C.F.R. 9, 63.

The EPA Test Method 319 is a testing protocol in which potassium chloride and oleic acid are substituted for chromate paint. These chemical substances attempt to simulate dry and wet overspray characteristics of the chromate paint. This testing protocol verifies that an air filtration system has met minimum efficiency requirements, under laboratory conditions, utilizing potassium chloride and oleic acid.

If a spraybooth existed before 1999, its filtration system must comply with the two stage standards, and if it was built after 1999, it must comply with the three stage standards. Tables 1 and 2 show the required compliance efficiency levels by micron size. Recent legislation has shown that two or three stages are not necessary as long as the final stage has been certified to comply with the minimum efficiency levels outlined in the table above.

Two-Stage System Existing Before 1999
Minimum NESHAP efficiency ratings by particle size

Oleic Acid (Liquid)		Postassium Chloride (Dry)	
Efficiency	Particle	Size Efficiency	Particle Size
>90%	>5.7µm	>90%	>8.1µm
>50%	>4.1µm	>50%	>5.0µm
>10%	>2.2 µm	>10%	>2.6 µm

Three-Stage System Existing Before 1999
Minimum NESHAP efficiency ratings by particle size

Oleic Acid (Liquid)		Postassium Chloride (Dry)	
Efficiency	Particle	Size Efficiency	Particle Size
>95%	>2.00µm	>95%	>2.50 µm
>80%	>1.00µm	>85%	>1.10 µm
>65%	>0.42 µm	>75%	>0.70 µm

Method 319: Determination of Filtration Efficiency for Paint Overspray Arrestors

Quote: “For a paint arrestor system or subsystem which has been tested by this method, adding additional filtration devices to the system or subsystem shall be assumed to result in an efficiency of at least that of the original system without the requirement for additional testing. (For example, if the final stage of a three-stage paint arrestor system has been tested by itself, then the addition of the other two stages shall be assumed to maintain, as a minimum, the filtration efficiency provided by the final stage alone.”

FLANDERS 319 COMPLIANT SYSTEM

Flanders final stage options have been tested and comply with NESHAP regulations. This allows a large range of interchangeable products for the earlier stages.

Flanders 2-Stage System	
Stage 1	Varies
Stage 2	325T 2-Pocket cube
Flanders 3-Stage System	
Stage 1	Varies
Stage 2	Varies
Stage 3	319A 95% Bags

