



LMS TECHNOLOGIES, INC.
 6423 Cecilia Circle
 Bloomington, MN 55439
 (952) 918-9060, Fax: (952) 918-9061

Test Report-NESHAP Method 319 (3-stage)

Report #: 566
Test Date: 5/14/2020

Supplier:	<u>Rohner Finishing Systems</u>
Filter ID:	<u>Gold/White Pocket Filter</u>
Supplier Filter Part #:	<u>COFL-NEPKDMS-20-20-12-I</u>
Filter Description: Number of Pockets:	<u>Composite Pocket Filter</u>
	<u>5 Pkts</u>
Filter Size:	<u>20" x 20" x 12"</u>
Flow Rate:	<u>330cfm</u>
Nominal Depth:	<u>12"</u>
Nominal Face:	<u>20" x 20"</u>
Dimensions:	<u>20" x 20"</u>



Test Description

Temp & Humidity:	<u>71° F @ 33%</u>
Particle Analysis:	<u>Met One 3400</u>
Face Velocity (FPM)	<u>120 fpm</u>
Air Flow Rate (CFM)	<u>333 cfm</u>
Test Aerosol (Solid-Phase):	<u>KCl, Neutralized</u>
Test Aerosol (Liquid-Phase):	<u>Oleic Acid, Neutralized</u>
LMS#:	<u>6287</u>

Test Engineer : Al Vatine/Emile Tadros/Pat Best/Jose Tizcareno/Kevin Kwong/ Kia Kiantaj

Approved By: K. C. Kwok, Ph.D.

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Date : May 14, 2020 Velocity: 120 fpm
 Filter ID : Gold/White 5 Pkts Filter Flow Rate: 333 cfm
 Filter Size: 20" x 20" x 12"
 Test Type : NESHAP Method 319(3-stage)
 Test Aerosol : KCl, neutralized

Number	1	2	3	Avg.
ΔP (" H ₂ O)	0.217	0.217	0.217	0.217
Size Range (μm)	Fractional Efficiency (%)			
0.49-0.59	95.9	96.5	97.5	96.6
0.59-0.73	97.4	98.0	98.7	98.0
0.73-0.87	98.3	98.9	99.2	98.8
0.87-1.16	99.1	99.3	99.7	99.4
1.16-1.44	99.5	99.7	99.9	99.7
1.44-2.14	99.7	99.7	100.0	99.8
2.14-2.85	99.8	99.8	100.0	99.9
2.85-4.25	99.9	99.9	100.0	99.9
4.25-5.55	99.9	99.9	100.0	99.9
5.55-7.07	100.0	100.0	100.0	100.0
7.07-7.66	100.0	100.0	100.0	100.0
7.66-9.46	100.0	100.0	100.0	100.0
9.46-14.1	100.0	100.0	100.0	100.0

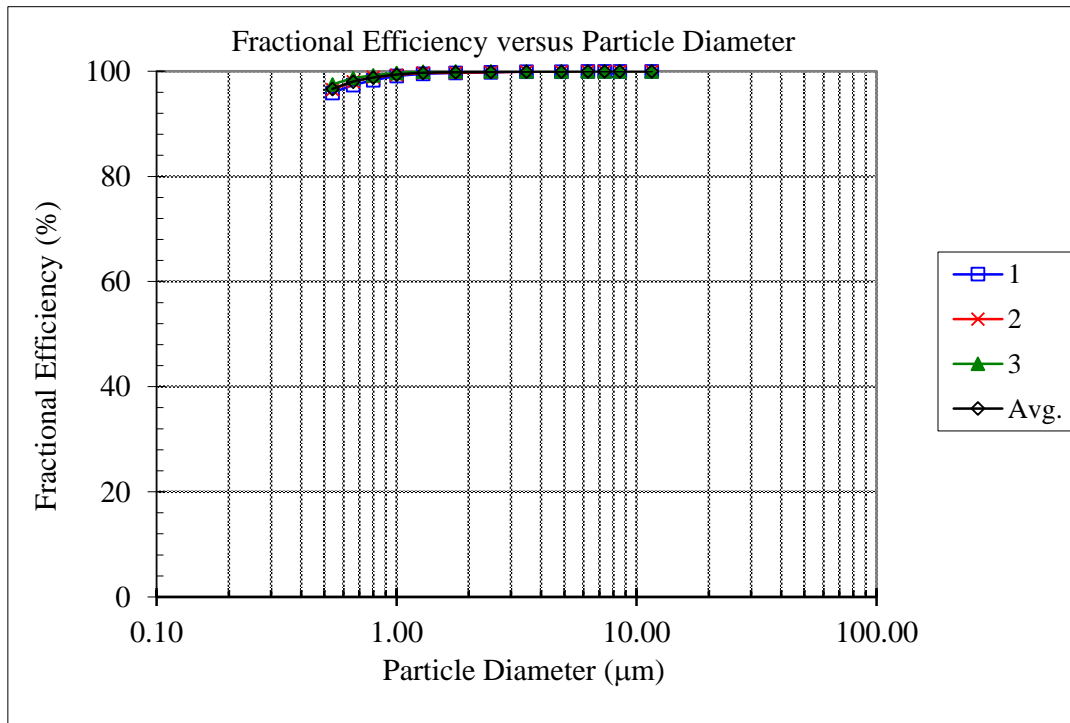
MINIMUM
 >75%
 >85%
 >95%

$$F_{eff} = \frac{C_{up} - C_{down}}{C_{UP}} \times 100\%$$

F_{eff} = Fractional Efficiency

C_{up} = Particle Concentration Upstream of Filter

C_{down} = Particle Concentration Downstream of Filter



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Date : May 14, 2020 Velocity: 120 fpm
 Filter ID : Gold/White 5 Pkts Filter Flow Rate: 333 cfm
 Descriptions: 20" x 20" x 12"
 Test Type : NESHAP Method 319(3-stage)
 Test Aerosol : Oleic Acid, neutralized

Number	1	2	3	Avg.
ΔP (" H ₂ O)	0.222	0.216	0.215	0.218
Size Range (μm)	Fractional Efficiency (%)			
0.31-0.37	92.9	92.8	93.3	93.0
0.37-0.47	95.5	95.6	96.0	95.7
0.47-0.56	96.7	97.2	97.4	97.1
0.56-0.75	98.5	98.7	98.9	98.7
0.75-0.94	99.3	99.4	99.5	99.4
0.94-1.41	99.6	99.7	99.8	99.7
1.41-1.88	99.8	99.9	99.9	99.9
1.88-2.83	99.9	99.9	99.9	99.9
2.83-3.69	99.9	100.0	99.9	99.9
3.69-4.71	100.0	100.0	100.0	100.0
4.71-5.11	100.0	100.0	100.0	100.0
5.11-6.29	100.0	100.0	100.0	100.0
6.29-9.43	100.0	100.0	100.0	100.0

MINIMUM
 >65%
 >80%
 >95%

$$F_{eff} = \frac{C_{up} - C_{down}}{C_{UP}} \times 100\%$$

F_{eff} = Fractional Efficiency

C_{up} = Particle Concentration Upstream of Filter

C_{down} = Particle Concentration Downstream of Filter

