

LMS Technologies, Inc.

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REPORT

PAINT ARRESTANCE FILTER TESTING Spray Removal Efficiency & Paint Holding Capacity

Report # 283

Test # 389

Test Information

FILTER NAME white pad

FILTER MODEL NO. _____

FILTER DIMENSIONS 20" H x 20" W x 1" D (inches) H W D (cm.)

FILTER DESCRIPTION white spun polyester pad

PAINT DESCRIPTION #1 High-Solids Permaclad (Sherwin Williams H67RC65 Permaclad 2400,
Solvent-Based Polyester Baking Enamel, Bon Red)

PAINT DENSITY 1.05 grams/cc

Test Conditions

PAINT SPRAY FEED RATE (equiv.) 5.5 Qt./40 min. 136 gr./min. 130 cc./min.

AIRFLOW RATE 150 FPM

AIR TEMPERATURE (equiv.) 72 °F 22 °C

Test Results

INITIAL PRESSURE DROP of Clean Test Filter 0.0819 in. H₂O 2.08 mm.H₂O

FINAL PRESSURE DROP of Loaded Test Filter 0.51 in. H₂O 12.9 mm.H₂O

WEIGHT GAIN - FINAL FILTER 5.4 grams

PAINT HOLDING CAPACITY of TEST FILTER 3.5 pounds 1574 grams

PAINT RUN-OFF 144 grams

AVERAGE REMOVAL EFFICIENCY of TEST FILTER 99.69 %

Date Nov. 8, 2000

Test Lab Supv. P. Tuzinski

Approving Engineer K.C. Kwok, Ph.D.

PAINT ARRESTANCE FILTER TEST REPORT

Spray Removal Efficiency & Paint Holding Capacity

Filter Name: **white pad**
Report#./Test# **R 283 T 389**
Report Date: **Nov. 8, 2000**

Test Information

FILTER DESCRIPTION (20" x 20" pad):

white spun polyester pad

PAINT DESCRIPTION:

High Solids Baking Enamel (S.W. Permaclad 2400, red)

PAINT SPRAY METHOD:

Conventional Air Gun at 40 PSI

SPRAY FEED RATE:

136 gr./min. **130** cc./min.

AIR VELOCITY:

150 FPM

Test Results

INITIAL PRESSURE DROP of Clean Test Filter

0.08 in. water

FINAL PRESSURE DROP of Loaded Test Filter

0.51 in. water

PAINT HOLDING CAPACITY of TEST FILTER

1574 grams = **3.5** lbs.

PAINT RUN-OFF

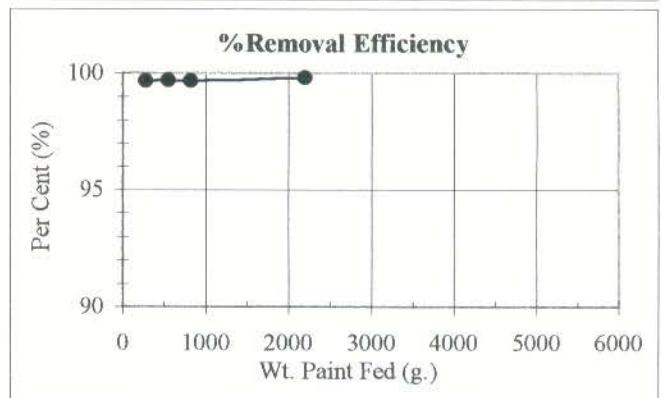
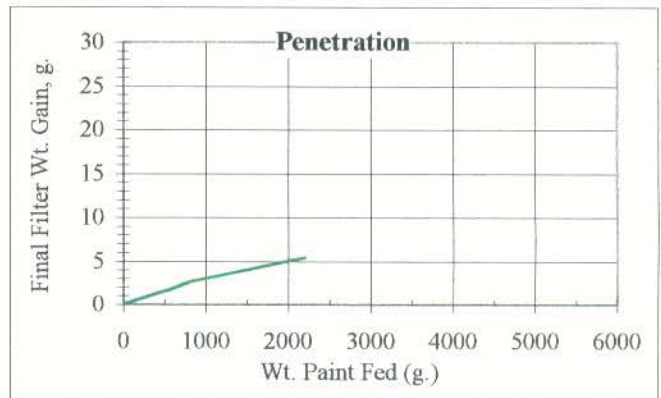
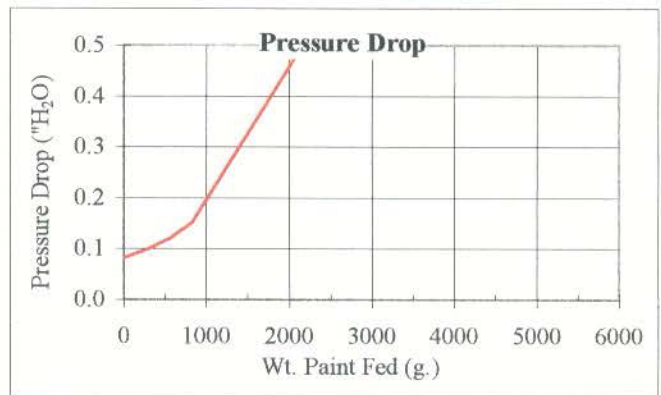
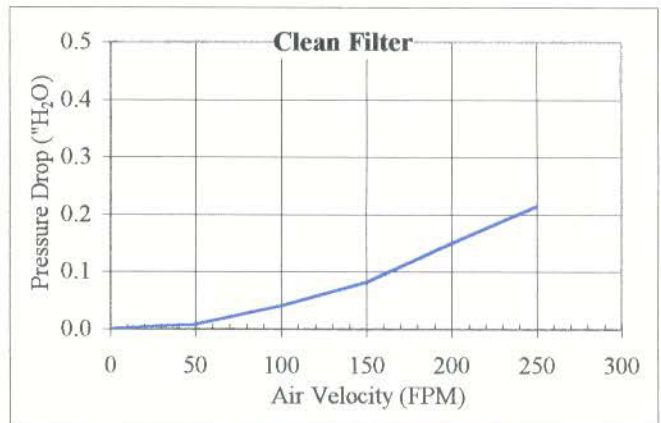
144 grams

WEIGHT GAIN - FINAL FILTER

5.4 grams = **PENETRATION**

AVERAGE REMOVAL EFFICIENCY of TEST FILTER

99.69 %



Test Engineer: P. Tuzinski

Supervising Engineer: K. C. Kwok, Ph.D.

Test data valid for no more than 2 years from date of issue.

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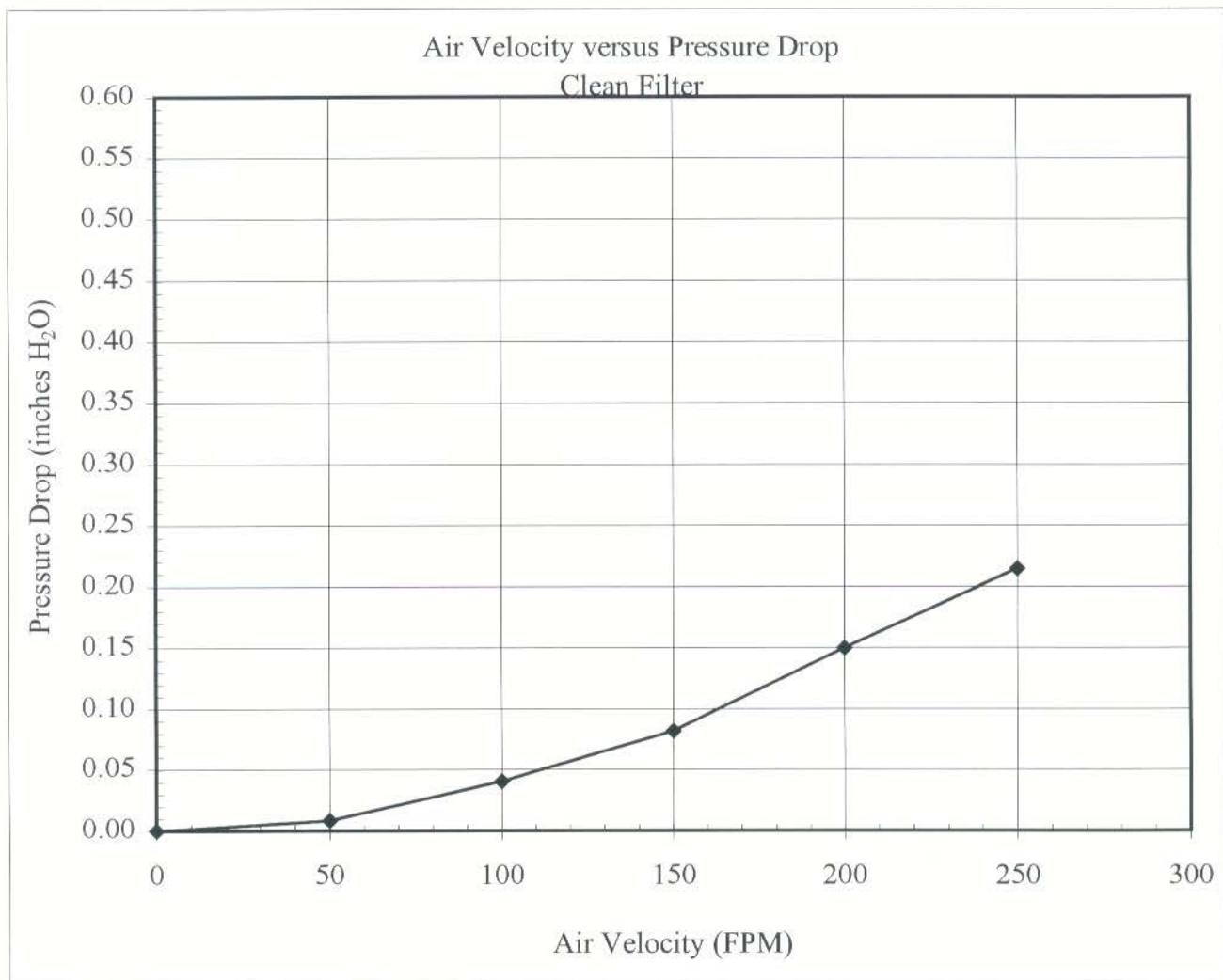
Fax: (952) 918-9061

Report #	283	Date:	Nov. 8, 2000
Test Type:	Paint Arrestance		
Filter ID:	white pad	Paint Type:	#1 SW Permaclad HS

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Test #
389

Air Velocity (FPM)	Pressure Drop (inches H ₂ O)
0	0.0000
50	0.0083
100	0.0406
150	0.0819
200	0.1496
250	0.2142

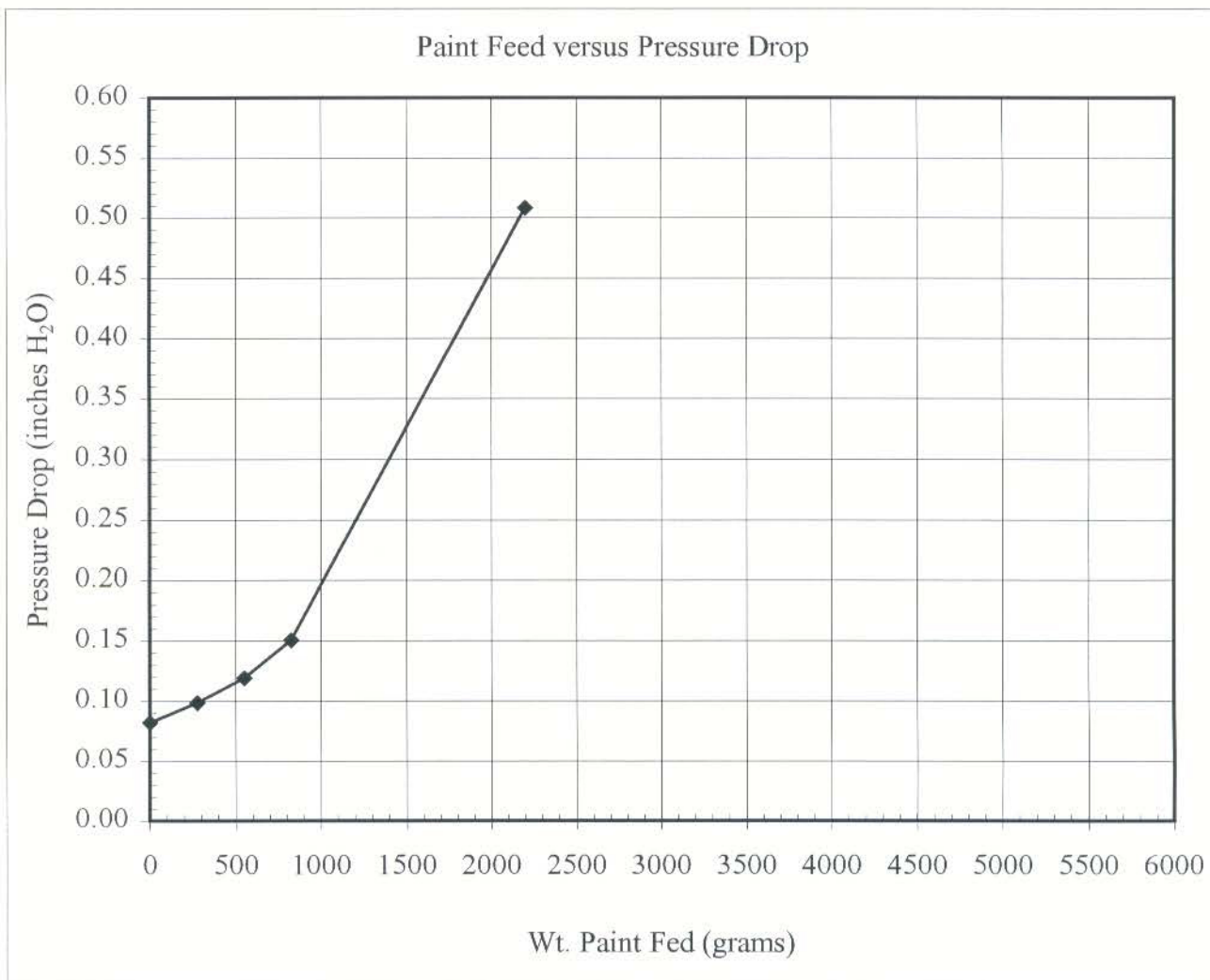


Report #	283	Date:	Nov. 8, 2000
Test Type:	Paint Arrestance		
Filter ID:	white pad	Paint Type:	#1 SW Permaclad HS

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Test #
389

Wt. Paint Fed (grams)	Pressure Drop (inches H ₂ O)
0	0.0819
278	0.0984
552	0.1189
827	0.1504
2199	0.5079

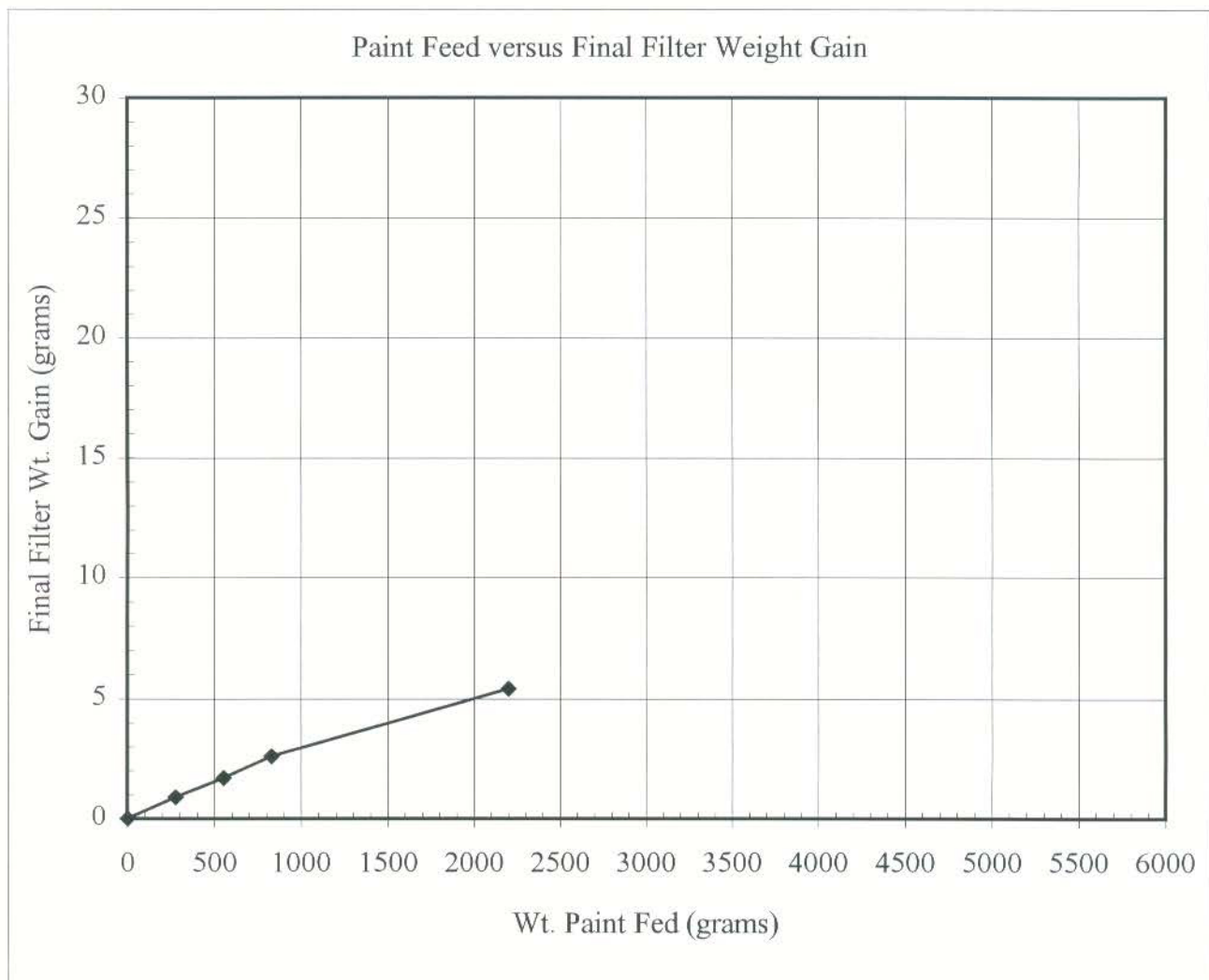


Report #	283	Date:	Nov. 8, 2000
Test Type:	Paint Arrestance		
Filter ID:	white pad	Paint Type:	#1 SW Permaclad HS

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Test #
389

Wt. Paint Fed (grams)	Gain cum. (grams)
0	0.0
278	0.9
552	1.7
827	2.6
2199	5.4



Report #	283	Date:	Nov. 8, 2000
Test Type:	Arrestance Efficiency		
Filter ID:	white pad	Paint Type:	#1 SW Permaclad HS

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Test #
389

Wt. Paint Fed (grams)	Removal Efficiency (per cent)
278	99.68
552	99.71
827	99.67
2199	99.80

