



**EMSL Analytical, Inc.**

107 Haddon Avenue, Westmont, NJ 08108  
Phone: (856) 858-4800

**Materials Science Division**

Attn.: *Joe Moore*

**First Defense Nasal Screens**

7143 State Road #54 #117

New Port Richey, FL. 34653

Phone: 727-389-3292 Fax: 800-616-0258

EMSL Case No.: 360901599 Rev.

Sample(s) Received: 8/12/2009

Date of Analysis: 8/13/2009

Date Printed: 8/18/2009

Reported By: J.Newton

**- Laboratory Report -**

**Project: Marian Fabric Porosity**

Analyzed by:

*John Newton*  
Laboratory Manager

13 August 2009

*Date*

QA/QC :

*Eric Barrett Ph.D.*  
Senior Materials Scientist

13 August 2009

*Date*



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*Procurement of Samples and Analytical Overview:*

The material for analysis arrived at EMSL Analytical's corporate laboratory in Westmont, NJ on 8/12/09. The package arrived in satisfactory condition with no evidence of damage to the contents. The data reported herein has been obtained using the following equipment and methodologies.

Qualitative Analysis: Scanning Electron Microscopy (SEM)

Methods: Pore Size of Fabric and Filters by Ultrasonic Particle Sieve



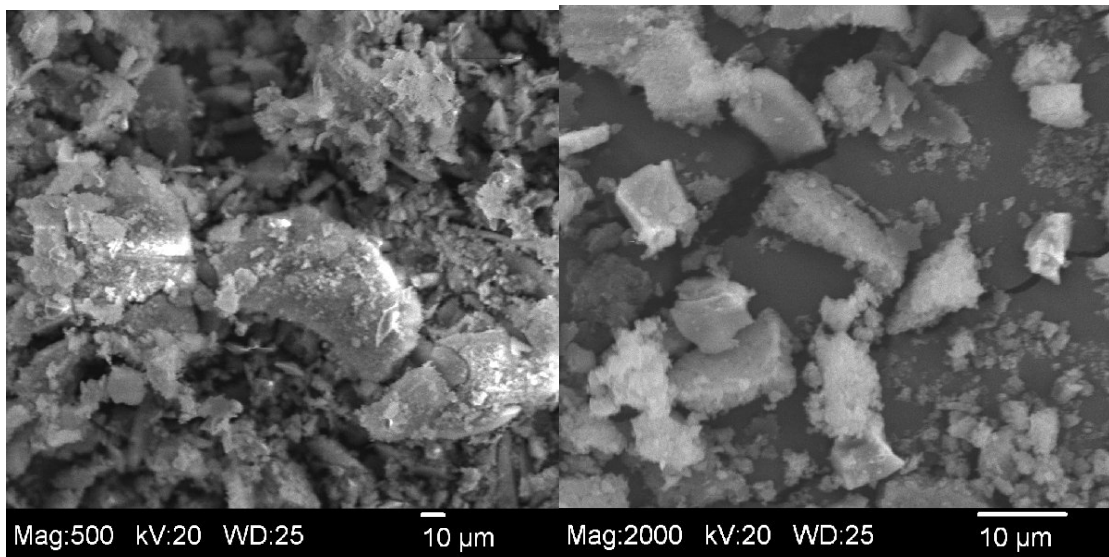
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Sample: 1  
Description: 3/4 oz/SY Beige Fabric Medco RTS 1107-07 40" x 48"

<i>Particle Size (um)</i>	<i>Particle Distribution (occurrence)</i>	<i>Particle Distribution (%)</i>
0.1	1300	22.4
0.2	1200	20.7
0.4	1000	17.2
0.6	610	10.5
0.8	540	9.3
2	460	7.9
4	285	4.9
6	210	3.6
8	120	2.1
10	60	1.0
20	18	0.31
40	4	0.07
60	1	0.02
80	0	0.00
100	0	0.00





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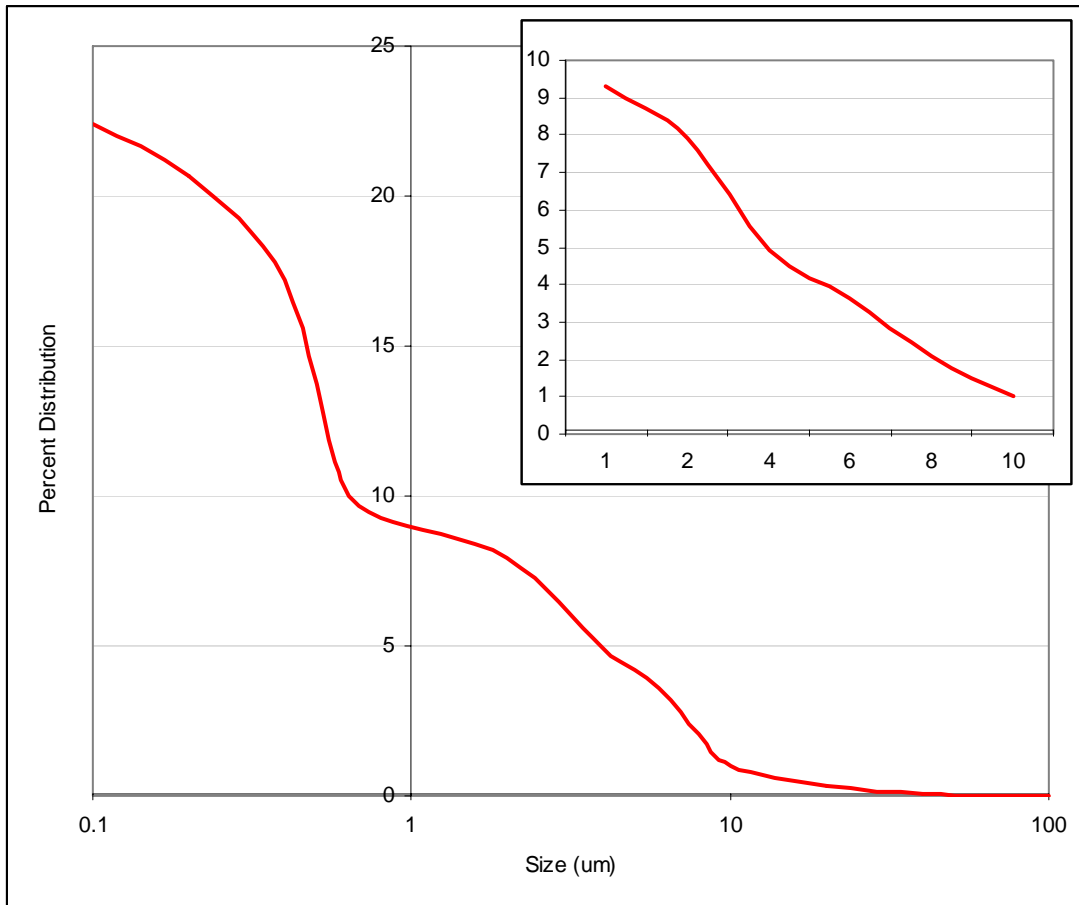
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Particle size distribution passing the fabric



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*Descriptions & Definitions:*

None Detected (ND) denotes the absence of an analyte in the subsample analyzed. Trace levels of the analyte may be present in the sample below the limit of detection (LOD).

Limit of Detection (LOD): The minimum concentration that can be theoretically achieved for a given analytical procedure in the absence of matrix or sample processing effects. Particle analysis is limited to a single occurrence of an analyte particle in the sub-sample analyzed.

Limit of Quantitation (LOQ): The minimum concentration of an analyte that can be measured within specified limits of precision and accuracy during routine laboratory operating conditions

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The results are obtained using the methods and sampling procedures as described in the report or as stated in the published standard methods, and are only guaranteed to the accuracy and precision consistent with the used methods and sampling procedures. Any change in methods and sampling procedure may generate substantially different results. EMSL Analytical, Inc. assumes no responsibility or liability for the manner in which the results are used or interpreted. Official, legally defensible reports require hand signatures. Reports with digital signatures are for email and other digital distribution only.