Lab Report



Customer:	Sample	Date:
Lab Report:		By:

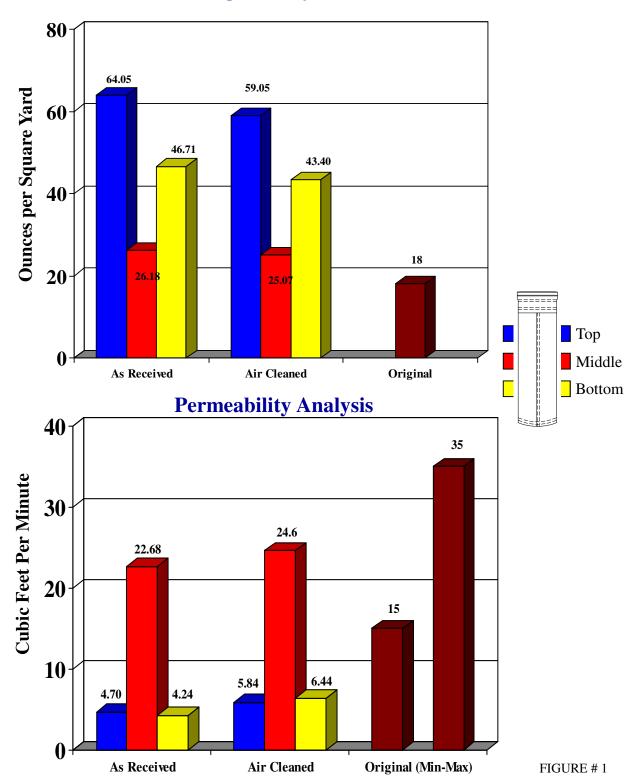
Overview of Dust Bag(s)/Project Information

Overview of Bust Bug(5)/11 offeet information
1) Bag Size & Design: This top loading filter bag was 148" long, had an
approximately 8-3/4" wide flat (bag slit lengthwise during removal), a 2-3/4"
separate cuff with a 9-3/4" long stainless steel mesh ground wire extension, a 5/8"
wide 3-needle lap seam with stainless steel ground wire, and a standard disc
bottom. The closest cell plate fit was 6.40" which was a loose fit. The media was
an 18 oz/yd² unsupported, singed polyester felt.
2) Bag Quantity: 432 Bags (6 comp x 72 bags each)
3) Process/Project ID: TBD
4) Problem (per customer): Poor overall bag performance
5) Service Life of Sample: 4 months
6) Desired Bag Life: TBD
o) Desired Bug Elie.
7) Desired Emission Rate: TBD
8) Special Notes:



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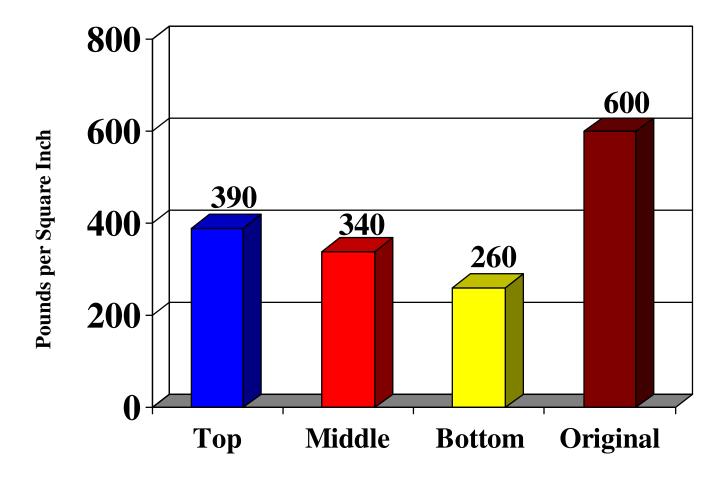
Weight Analysis

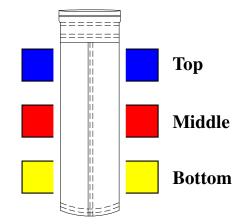




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Strength Analysis (Mullen Burst)



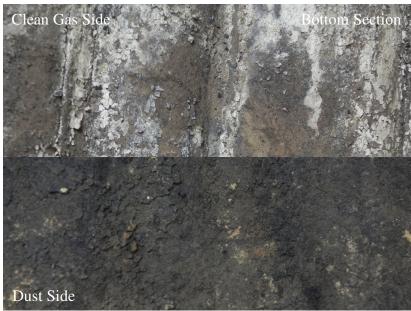




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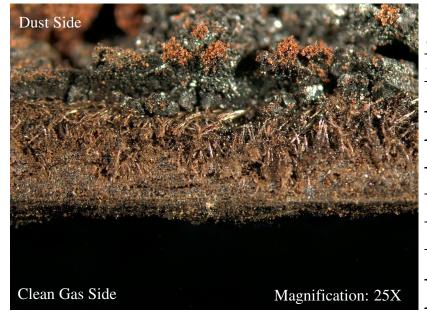
Text: Photograph # 1
Clean Gas Side vs. Dust Side view of the top section. Up to a 1" thick layer of hardened aggressively attached dust was present on the Dust Side (exterior) surface. A 1/8" thick layer of hardened aggressively attached dust was present on the Clean Gas Side (interior) surface. This photograph is also representative of the middle section of the filter bag.



Text: Photograph # 2
Clean Gas Side vs. Dust Side view
of the bottom section. Up to an 1/8"
thick layer of hardened aggressively
attached dust was present on the Dust
Side (exterior) surface. A 1/16"
thick layer of hardened aggressively
attached dust was present on the
Clean Gas Side (interior) surface.



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Text: Photograph # 3
Cross section view from the top of the bag.

1 2 3 4 5 6

Minimal Moderate Severe

Dust Penetration Scale



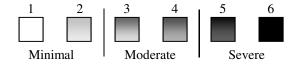
Text: Photograph # 4
Cross section view from the middle of the bag.



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Dust Side	
分 量 第	
Clean Gas Side	Magnification: 25X

Text: Photograph # 5
Cross section view from the bottom
of the bag.



Dust Penetration Scale



Text: Photograph # 6
Cross section view from a clean,
unused sample of 18 oz/yd²
unsupported, singed polyester felt for
comparison against the used felt
shown in Photographs #3, #4 and #5.



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Text: Photograph # 7

Dust Side view of the filter bag as received to the lab. The filter bag was slit lengthwise during removal.

A heavy layer of aggressively attached dust was evident the entire length of the filter bag.



Text: Photograph # 8

Dust Side view of the top portion of the bag illustrating thick, bark-like agglomerations adhered to the external bag surface.



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Text: Photograph # 9
Clean Gas Side view showing a
heavy layer of ubiquitous brown, red,
and white dust coating the interior
bag surface. This photograph is
representative of the entire length of
the filter bag on the interior side.



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Lab Analysis Summary

Physical Damage: There was no physical damage from the process present on
this filter bag. The bag was split during removal.
Chemical Attack: Possible due to a 45% loss in Mullen Burst strength.
Hydrolytic Attack: Possible due to a 45% loss in Mullen Burst strength.
Dust Cake Formation: A thick, bark-like layer of reddish-brown dust coated
the entire outside of the bag, with a thinner layer of dust coating the interior side.
Dust Penetration: See Dust Penetration Photographs.
Additional Comments: The permeability and Mullen Burst strength after air
pulse cleaning were 12.29 cfm and 330 psi respectively. This represents an 18%
loss in permeability (original specification of 15 cfm) and a 45% loss in Mullen
Burst strength (original specification of 600 psi).