

## Test Report

**Customer -** XXXX

**Report Number -** T2744

**Tested by -** William Sahrhage                      **Date -** 5/5/2009

**Purpose -** Remove dust

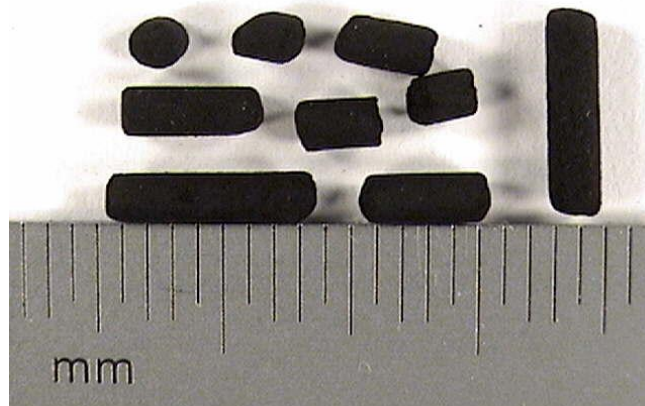
**Desired Clean Rate -** 0.09 percent

**Required Flow Rate -** 137 lb/hr

**Standard -** **ASTM D1921-01**, Test Method B, for dry sieve analysis  
**ASTM D7486-08**, Standard Test Method for Measurement of Fines and Dust Particles on Plastic Pellets by Wet Analysis  
We generally use sieve sizes in the micron range of 2000, 1000, 500 and pan. For regrind material, we use the dry sieve analysis, for virgin material the wet test. On request, we also provide testing in accordance with the European FEM 2482, Type A, B or C.

**Dust Definition -** ASTM D7486-08 considers dust as particles between 1.6 and 500 micron. The FEM 2482 defines dusts between 500 and 63 micron (type A), to 40 micron (type B), and to 20 micron (type C). This test was conducted using the ASTM dust definition.

**Material Description -**  
**Type:** Activated Carbon  
**Trade Name:** XXXX  
**Manufacturer:** Mead Westvaco  
**Bulk Density:** 20.32 lb/cu ft  
**Pellet Size:** ~2 mm x ~9 mm  
**Pellet Shape:** Tubular  
**Picture:**



## CONFIDENTIAL Summary Sheet

**Test Summary -** Your material sample was cleaned in our DeDuster® model P5. Samples of the before, after and removed materials were analyzed for particle size distribution to determine the quality of cleaning. Test data is recorded on page 3 and sample pictures are on page 4. All material samples have been packaged for your analysis.

**Result of Test -** The dust content in your material was reduced from about 590 to 47 PPM. The dry sieve analysis shows the level of dust remaining in your product is about 0.0047 percent. Good product carryover to the dust collector, larger than 1 mm, is about 0.068 percent.

The slowest established material flow rate through the DeDuster® is 155 lb/hr.

**Suggestions -** None at this time.

**DeDuster® Settings -**

Blower Type:		Wash Deck Style:	0.8 mm, no slots
Filter Type:	Paper	By-Pass Damper:	Open
Product Flow Rate (lb/hr):	155	Bleed Air Damper:	1/2" Open
Product Outlet:	Open	Agitator Style:	Flex-8
Dust Collector:	CCD	Agitator Position:	Down

## CONFIDENTIAL

### DeDuster® Analysis Data

#### As Received Analysis

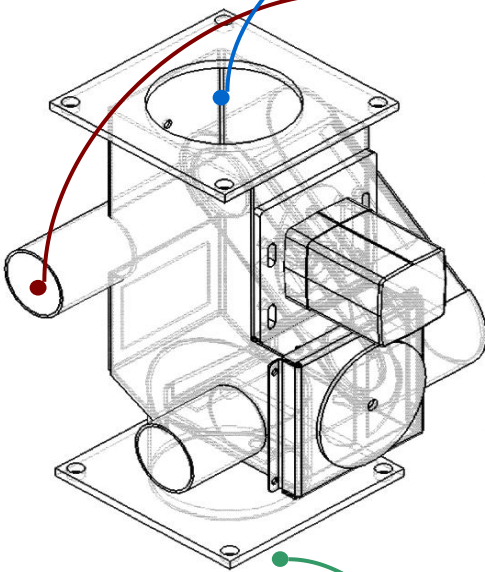
Total Quantity Cleaned (Lbs)	21.49
Wet Parts Per Million <500 µm	590.4

#### Removed Material Analysis

	Percent	~Wt (lbs)
Quantity Removed:	0.130758	0.0281

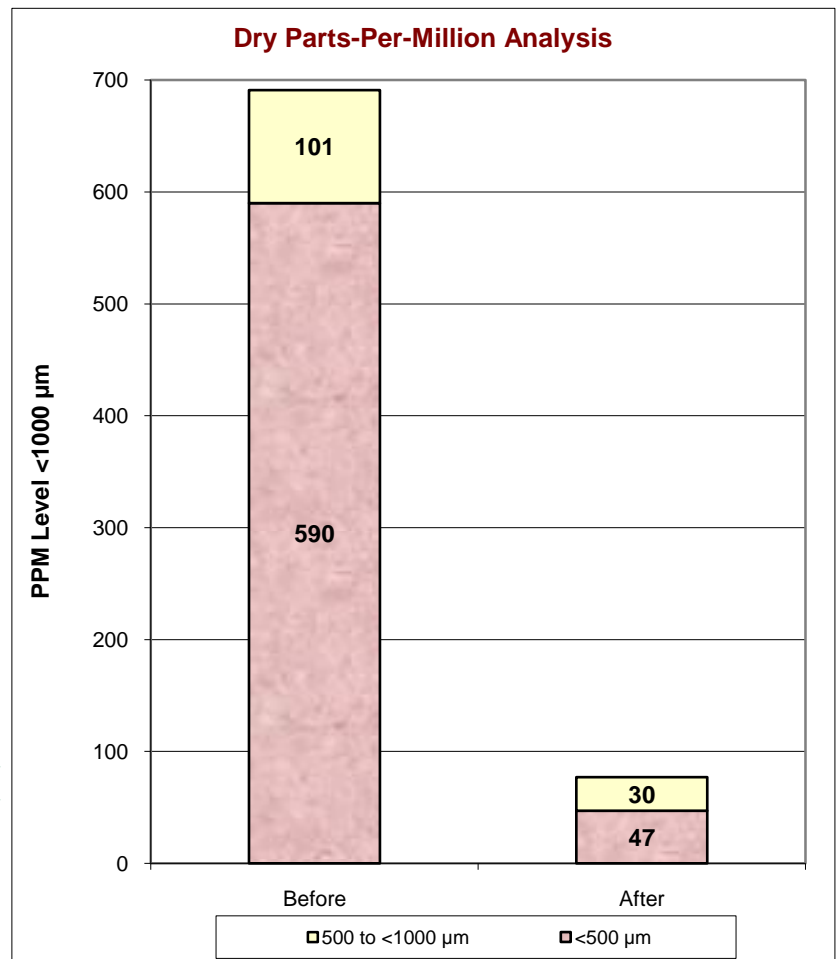
#### Dry Sieve Analysis:

>2000 Micron	5.0980	0.0014
>1000 Micron	47.8431	0.0134
>500 Micron	5.4902	0.0015
<500 Micron	41.5687	0.0117



#### Cleaned Analysis

Quantity Cleaned (Lbs)	21.4619
Wet Parts Per Million <500 µm	47

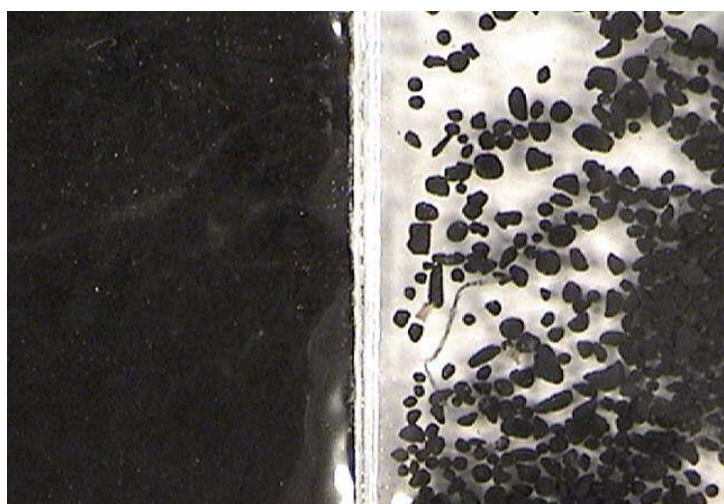




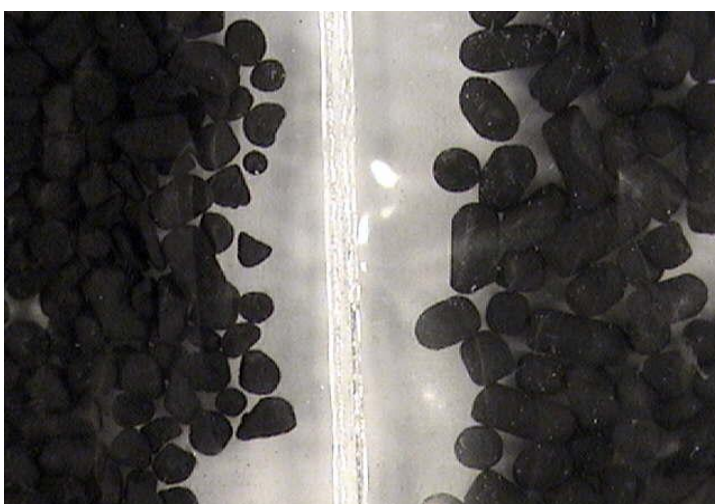
Before Cleaning



After Cleaning



<500 μm  
>500 μm  
Removed Material



>1000 μm  
>2000 μm  
Removed Material