

March 8, 2013

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Report No.: FAI13-0149
 Project No.: DST 1815
 Proposal No.: D13-0123

Subject: Dust Explosibility Testing

Dear Chuck,

In response to GlassBlast’s request, Fauske and Associates, LLC (FAI) conducted a “Go/No Go” explosibility screening test which is included in ASTM E1226-10, “*Standard Test Method for Explosibility of Dust Clouds*” (Section 13). The screening test is used to identify if the sample is combustible in a dust cloud form. The criterion used for a “Go” is a 1-bar explosion overpressure after accounting for the influence of the 5 kJ ignition source. The test was conducted on the following sample labeled:

1. GlassBlast-Houston (#46-70).
 Sample was received on 3/4/2013

The sample was tested “as received” per the client’s request. The particle size analysis results are shown in Appendix A.

The detailed “Go/No Go” test results are shown in Table 1.

Table 1: Go/No Go Explosibility Screening Test Results

Room Temperature: 23°C
 Relative Humidity: 22%

Barometric Pressure: 995 mbar
 Date of Test: 3/6/13

Material	Moisture Content (wt. %)	Mean Particle Size (µm)	Dust Concentration Tested (g/m ³)	Explosion Overpressure (bar)	Test Result
GlassBlast-Houston (#46-70)	0.04	157 13% <75µm	500	0.0	No Go
			1000	0.0	
			2000	0.0	

The results from the test indicate that the sample did not produce an explosion overpressure of 1 bar, or greater. As a result, this sample is considered to be non-explosible in dust cloud form.

If you have any further questions regarding the content of this report, please feel free to contact us.

Respectfully submitted,
Fauske and Associates, LLC.

Prepared by:
Rachelle Baker
Dust Projects Coordinator

Reviewed by:
Michael Lim
Manager, Dust Projects

Note that the conclusions and recommendations in this report are based on the specific considerations stated and laboratory test methodologies used. These considerations include (but are not limited to) exact sample materials tested; formulae tested, conditions of the test, and assumed plant physical parameters. The conclusions and recommendations may not be applicable for conditions not identical to those considered.

Appendix A:



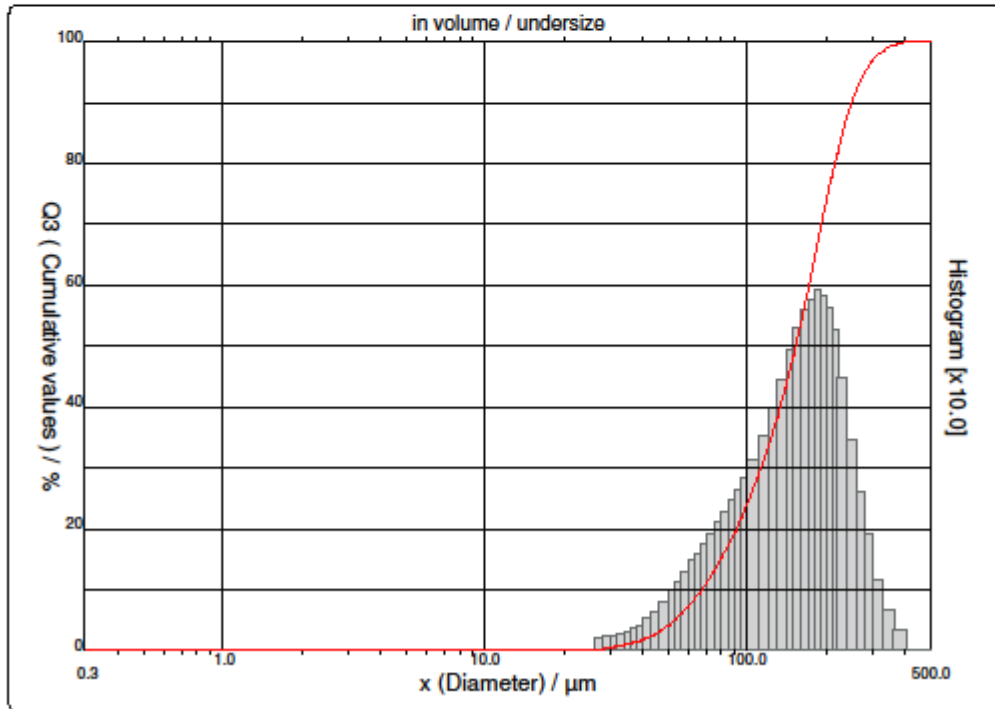
**PARTICLE SIZE DISTRIBUTION
CILAS 1064 Dry**

Range : 0.30 µm - 500.00 µm / 100 Classes

Sample ref. : Glassblast Houston	Pressure/Distributor : 470 mb / 5
Customer Name : Glassblast	Obscuration : 1 %
Sample Name : Glassblast Houston	Diameter at 10% : 67.24 µm
Comments : Run #1(As Received)	Diameter at 50% : 152.80 µm
-----	Diameter at 95% : 281.63 µm
-----	Mean diameter : 157.10 µm
Operator : GJ	Fraunhofer
Company : Fauske & Associates LLC	Density/Factor : -----
Location : Burr Ridge, IL	Specific surface : -----
Date : 03/05/2013 Time : 01:26:36PM	Meas./Rinse No. : 15s/15s/0
Index meas. : 6297	SOP name : Fauske
Database name : Granulog	

Customer defined classes											in volume / undersize										
x	5.00	10.00	20.00	37.00	44.00	53.00	62.00	74.00	105.0	149.0											
Q3	0.00	0.00	0.00	1.34	2.59	4.94	7.99	12.71	26.23	47.96											
x	177.0	210.0	250.0	297.0	420.0	590.0	840.0	1190.0	1680.0	2380.0											
Q3	62.55	77.85	89.94	96.60	100.00	100.00	100.00	100.00	100.00	100.00											

x : Diameter / µm Q3 : Cumulative Value / % q3 : density distribution



Serial No. : 1104 Ref: 1.r198.m0.88A1818/6.00/6297/m81.3.0.0.1Eh.10.0.0.DhVQ.0.0.0.0/600.0.15g10.0.9.10.1.10.P6500.1.10.N.0V 9.14/635

Figure A1: GlassBlast-Houston (#46-70) particle size distribution