



Testing to the Core

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TEST REPORT

Issued to:

Elite Minerals
1/707-4,Dwaraka Nagar,Yerramukka Palli,
Kadapa, Kadapa (Dist)-516004
Andha Pradesh, India.

Report No. : LLPL/17-18/001645

Issue Date : 05/06/2017

Customer Ref.: Quotation

Kind Attn.:Mr.Mohammed Shafi,

Ref.Date : 24/05/2017

Sample Particulars : BARITIES**Sample description : BARITIES**

Qty. Received : 500grms X1no,

Test Parameters : Barium Sulphate as BaSO₄, Specific gravity, Cadmium as Cd, Mercury as Hg, Lead as Pb, Particle Size, Soluble Alkaline Earth Metal as calcium

Date of Receipt of Sample : 27/05/2017

Date of Starting of Analysis : 28/05/2017

Date of completion of analysis : 05/06/2017

TEST RESULTS

S.No.	Parameters	Units	Results	Test Method
1	Barium Sulphate as BaSO ₄	% by mass	81.52	ASTM D 715
2	Specific gravity	g/cc	4.0260	ASTM C 110
3	Cadmium as Cd	mg/kg	2.96	EPA-3052
4	Mercury as Hg	mg/kg	4.19	EPA-3052
5	Lead as Pb	mg/kg	1.5	EPA-3052
6	Particle Size(lessthan 6 microns)	% by mass	27.3	Particle Analyzer
7	Soluble Alkaline Earth Metal as calcium	mg/kg	180	ASTM D 602

Instrument used: ICP-OES

Note: The results expressed as on dry basis

NOTE : This report and results relate only to the sample / items tested.

R.V. Rama Rao
Authorized Signatory



10.6.1
S3000/S3500

LUCID LABS

M/s ELITE MINERALS

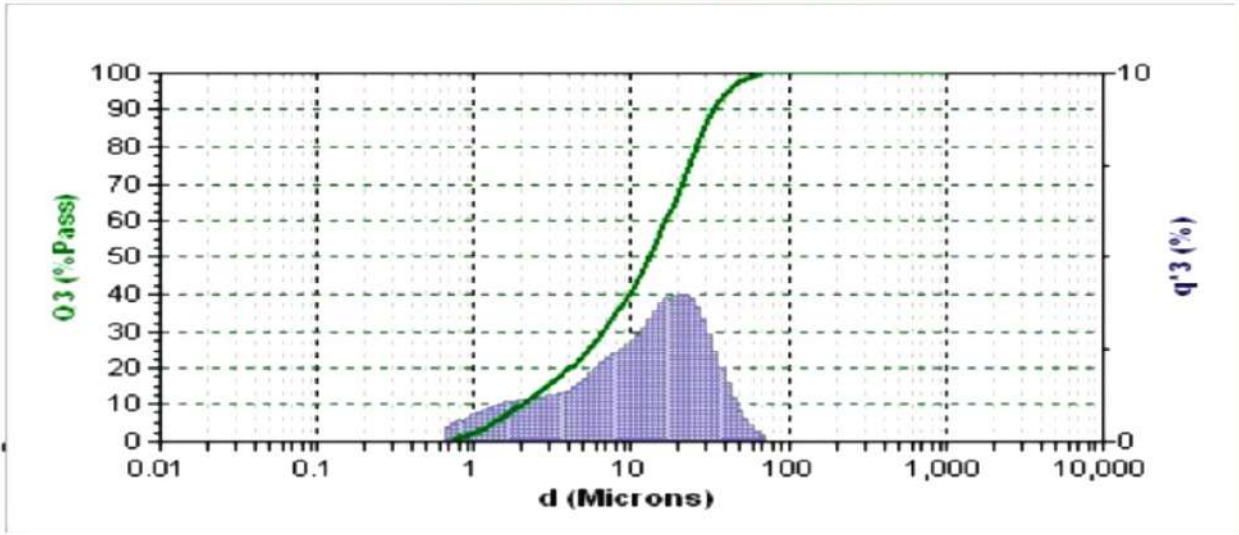
Sample Name: POWDER SAMPLE

Sample ID: 1645-BARYTE

Data Acquired: 06/01/2017 - 13:15

Calculated: 06/01/2017 - 13:15

Particle Size Analysis Report



Peaks

d(nm)	Vol%	Width
12.87	100.0	25.43

Summary

Data	Value
MV(um):	15.87
MN(um):	1.214
MA(um):	5.57
CS:	1.077
SD:	12.68
Mz:	14.88
σ :	12.32
Sk1:	0.311
Kg:	0.909

Percentiles

d(i)	d(um)
95.00	40.82
90.00	33.64
80.00	25.90
60.00	16.70
50.00	13.05
40.00	9.67
30.00	6.73
20.00	4.07
10.00	2.004
5.00	1.322

Size Percent

d(um)	d(i)
5.00	24.34
25.00	78.66
50.00	98.05
100.0	100.00
150.0	100.00
200.0	100.00
250.0	100.00
300.0	100.00
400.0	100.00
500.0	100.00

Num	q(1)%	Q1(um)	Q2(um)	Q3(um)	Q4(um)	Q5(um)	Q6(um)	Q7(um)	Q8(um)	Q9(um)
95.0	0.00	100.00	52.33	0.88	98.46	2.780	1.18	14.27		
91.0	0.00	100.00	47.98	1.21	97.58	2.522	1.17	13.08		
87.2	0.00	100.00	44.00	1.60	96.37	2.312	1.15	11.91		
83.7	0.00	100.00	40.35	2.02	94.77	2.121	1.13	10.76		
80.0	0.00	100.00	37.00	2.47	92.75	1.945	1.10	9.65		
76.5	0.00	100.00	33.93	2.90	90.28	1.783	1.07	8.53		
73.0	0.00	100.00	31.11	3.30	87.38	1.635	1.03	7.46		
69.0	0.00	100.00	28.53	3.63	84.08	1.499	0.98	6.43		
65.0	0.00	100.00	26.16	3.89	80.45	1.375	0.93	5.45		
61.0	0.00	100.00	23.99	4.01	76.58	1.261	0.87	4.52		
57.0	0.00	100.00	22.00	4.00	72.55	1.156	0.80	3.65		
53.0	0.00	100.00	20.17	3.95	68.35	1.060	0.73	2.85		
49.0	0.00	100.00	18.50	3.90	64.59	0.972	0.65	2.12		
45.0	0.00	100.00	16.96	3.75	60.69	0.892	0.57	1.47		
41.0	0.00	100.00	15.56	3.53	56.94	0.818	0.49	0.90		
37.0	0.00	100.00	14.27	3.31	53.41	0.750	0.41	0.31		
33.0	0.00	100.00	13.08	3.10	50.10					
29.0	0.00	100.00	12.00	2.92	47.00					
25.0	0.00	100.00	11.00	2.77	44.08					
21.0	0.00	100.00	10.09	2.64	41.31					
17.0	0.00	100.00	9.25	2.52	38.67					
13.0	0.00	100.00	8.48	2.40	36.15					
9.0	0.00	100.00	7.76	2.28	33.75					
5.0	0.00	100.00	7.13	2.15	31.47					
1.0	0.00	100.00	6.54	2.00	29.32					
0.5	0.00	100.00	6.00	1.86	27.32					
0.25	0.00	100.00	5.50	1.72	25.46					
0.15	0.00	100.00	5.04	1.59	23.74					
0.10	0.00	100.00	4.62	1.47	22.15					
0.075	0.00	100.00	4.24	1.38	20.68					
0.05	0.18	100.00	3.89	1.32	19.30					
0.025	0.21	95.82	3.57	1.27	17.99					
0.0125	0.43	90.51	3.27	1.23	16.71					
0.00625	0.62	89.08	2.999	1.21	15.48					

Distribution:	Volume	Run Time:	10 Sec	Fluid:	WATER
Progression:	Geom & Root	Run#:	Avg of 3	Fluid Ref Index:	1.333
Up Edge (um):	995.6	Particle:	POWDER SAMPLE	Above Residual:	0
Low Edge (um):	0.688	Transparency:	Reflecting	Below Residual:	0.99
Residuals:	Disabled	Part. Ref. Index:	NA		
#Channels:	64	Particle Shape:	Irregular	Cell ID:	1057
Analysis Mode:	S3000/3500			Multi Run Delay:	9 Min.
Filter:	Enabled	DB Record:	4	Recalc Status:	Original
Analysis Gain:	Default(2)	Database:	E:\Microtrac\JUNE 2017\01.06.2017\LUCID.MDB		
				Loading Factor:	0.0337
				Transmission:	0.908
				RMS Residual:	1.393%
				Flow:	65 %
				Usonic Power:	NA
				Usonic Time:	NA
				Serial Number:	S4188