

Particle Size Analysis By Malvern Mastersizer - 3000

Sample Requirement :-

1. Solid Sample - 2 gms.
2. Liquid Sample - 10 ml.



Applications :-

1. Laser Based Diffraction Technique for measurement of Particle Size in range of 0.01 μm to 3000 μm (10 nm TO 3000 Microns) by using Wet dispersion method [In Water, Liquid Paraffin or Solvent] for Solid and Liquid Samples or by using Dry powder Feeder assembly for dried powder samples.

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Send your Enquiries



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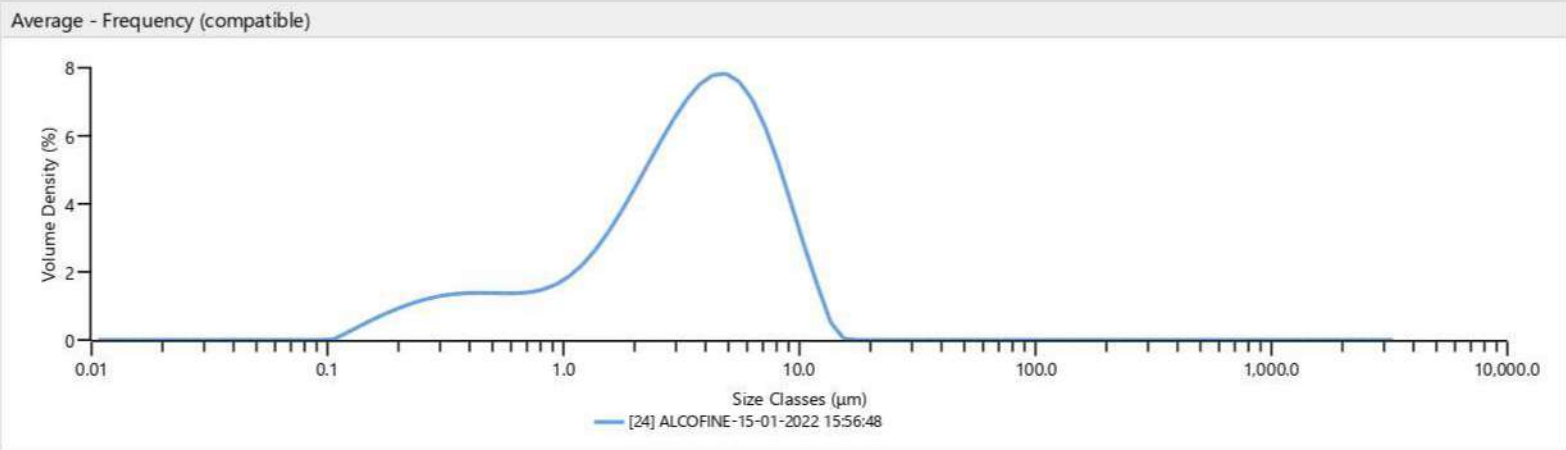


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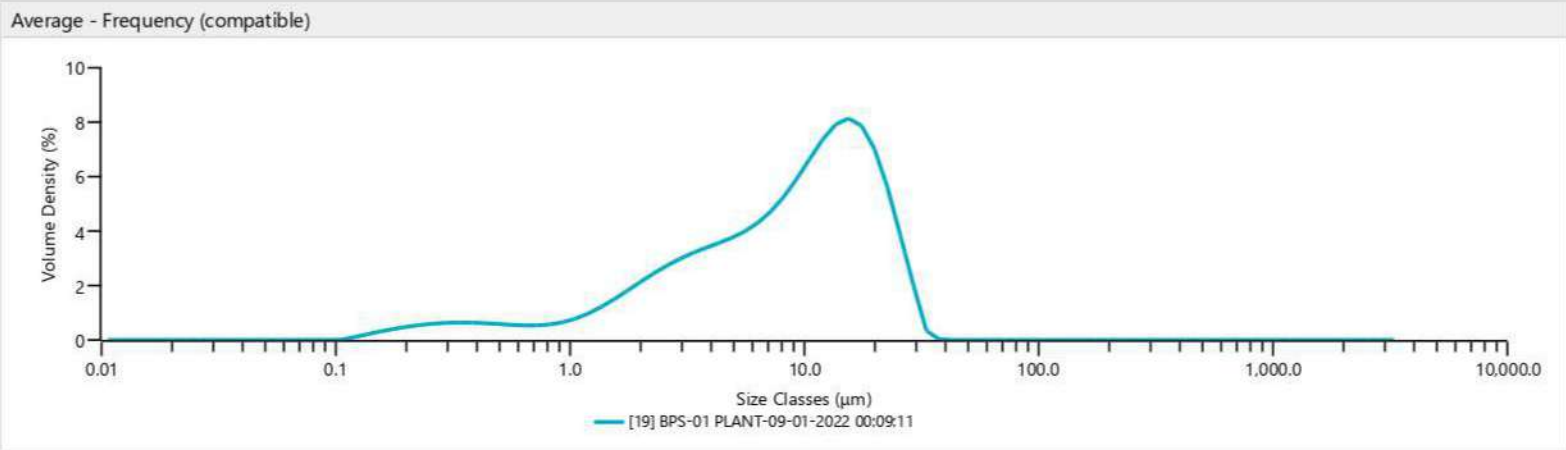
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Measurement Details	Measurement Details
Sample Name ALCOFINE	Instrument Type Mastersizer3000
BATCH NO. #M220109014-1	Scattering Model Mie
	Operator Name
	Analysis Date Time 15-01-2022 15:56:48
Analysis	Result
Dispersant Name Dry dispersion	D [3,2] 1.39 μm
Analysis Model General Purpose	D [4,3] 3.94 μm
Particle Refractive Index 1.520	Dv (10) 0.524 μm
Particle Absorption Index 0.100	Dv (50) 3.43 μm
Weighted Residual 1.01 %	Dv (90) 8.02 μm
Laser Obscuration 7.25 %	Dv (100) 14.4 μm



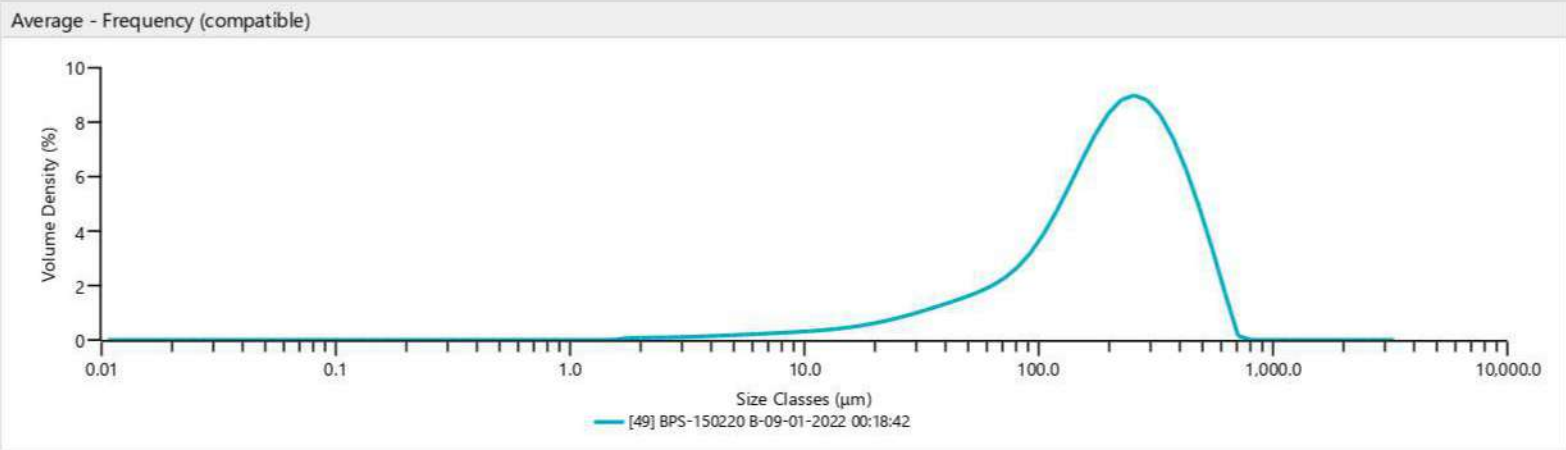
Result											
Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under
0.0100	0.00	0.0876	0.00	0.767	13.43	6.72	83.12	58.9	100.00	516	100.00
0.0114	0.00	0.0995	0.00	0.872	14.66	7.64	88.35	66.9	100.00	586	100.00
0.0129	0.00	0.113	0.00	0.991	16.01	8.68	92.69	76.0	100.00	666	100.00
0.0147	0.00	0.128	0.17	1.13	17.56	9.86	96.01	86.4	100.00	756	100.00
0.0167	0.00	0.146	0.51	1.28	19.39	11.2	98.29	98.1	100.00	859	100.00
0.0189	0.00	0.166	1.01	1.45	21.58	12.7	99.62	111	100.00	976	100.00
0.0215	0.00	0.188	1.66	1.65	24.22	14.5	100.00	127	100.00	1110	100.00
0.0244	0.00	0.214	2.44	1.88	27.36	16.4	100.00	144	100.00	1260	100.00
0.0278	0.00	0.243	3.34	2.13	31.06	18.7	100.00	163	100.00	1430	100.00
0.0315	0.00	0.276	4.34	2.42	35.35	21.2	100.00	186	100.00	1630	100.00
0.0358	0.00	0.314	5.41	2.75	40.22	24.1	100.00	211	100.00	1850	100.00
0.0407	0.00	0.357	6.53	3.12	45.64	27.4	100.00	240	100.00	2100	100.00
0.0463	0.00	0.405	7.68	3.55	51.54	31.1	100.00	272	100.00	2390	100.00
0.0526	0.00	0.460	8.83	4.03	57.82	35.3	100.00	310	100.00	2710	100.00
0.0597	0.00	0.523	9.98	4.58	64.32	40.1	100.00	352	100.00	3080	100.00
0.0679	0.00	0.594	11.13	5.21	70.86	45.6	100.00	400	100.00	3500	100.00
0.0771	0.00	0.675	12.27	5.92	77.21	51.8	100.00	454	100.00		

Measurement Details	Measurement Details
Sample Name BPS-01 PLANT	Instrument Type Mastersizer3000
	Scattering Model Mie
	Operator Name
	Analysis Date Time 09-01-2022 00:09:11
Analysis	Result
Dispersant Name Dry dispersion	D [3,2] 2.65 μm
Analysis Model General Purpose	D [4,3] 10.3 μm
Particle Refractive Index 1.520	Dv (10) 1.50 μm
Particle Absorption Index 0.100	Dv (50) 9.20 μm
Weighted Residual 2.46 %	Dv (90) 21.1 μm
Laser Obscuration 2.71 %	Dv (100) 35.2 μm



Result											
Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under
0.0100	0.00	0.0876	0.00	0.767	6.17	6.72	39.45	58.9	100.00	516	100.00
0.0114	0.00	0.0995	0.00	0.872	6.64	7.64	43.36	66.9	100.00	586	100.00
0.0129	0.00	0.113	0.00	0.991	7.18	8.68	47.73	76.0	100.00	666	100.00
0.0147	0.00	0.128	0.09	1.13	7.83	9.86	52.65	86.4	100.00	756	100.00
0.0167	0.00	0.146	0.27	1.28	8.64	11.2	58.18	98.1	100.00	859	100.00
0.0189	0.00	0.166	0.53	1.45	9.65	12.7	64.32	111	100.00	976	100.00
0.0215	0.00	0.188	0.87	1.65	10.91	14.5	70.94	127	100.00	1110	100.00
0.0244	0.00	0.214	1.28	1.88	12.42	16.4	77.76	144	100.00	1260	100.00
0.0278	0.00	0.243	1.73	2.13	14.20	18.7	84.36	163	100.00	1430	100.00
0.0315	0.00	0.276	2.23	2.42	16.24	21.2	90.25	186	100.00	1630	100.00
0.0358	0.00	0.314	2.76	2.75	18.51	24.1	94.95	211	100.00	1850	100.00
0.0407	0.00	0.357	3.29	3.12	21.00	27.4	98.14	240	100.00	2100	100.00
0.0463	0.00	0.405	3.82	3.55	23.66	31.1	99.82	272	100.00	2390	100.00
0.0526	0.00	0.460	4.33	4.03	26.48	35.3	100.00	310	100.00	2710	100.00
0.0597	0.00	0.523	4.82	4.58	29.44	40.1	100.00	352	100.00	3080	100.00
0.0679	0.00	0.594	5.28	5.21	32.56	45.6	100.00	400	100.00	3500	100.00
0.0771	0.00	0.675	5.73	5.92	35.88	51.8	100.00	454	100.00		

Measurement Details	Measurement Details
Sample Name BPS-150220 B	Instrument Type Mastersizer3000
	Scattering Model Mie
	Operator Name
	Analysis Date Time 09-01-2022 00:18:42
Analysis	Result
Dispersant Name Dry dispersion	D [3,2] 79.5 μm
Analysis Model General Purpose	D [4,3] 227 μm
Particle Refractive Index 1.520	Dv (10) 48.7 μm
Particle Absorption Index 0.100	Dv (50) 207 μm
Weighted Residual 0.31 %	Dv (90) 435 μm
Laser Obscuration 2.40 %	Dv (100) 698 μm



Result											
Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under
0.0100	0.00	0.0876	0.00	0.767	0.00	6.72	1.20	58.9	12.10	516	95.78
0.0114	0.00	0.0995	0.00	0.872	0.00	7.64	1.40	66.9	13.74	586	98.57
0.0129	0.00	0.113	0.00	0.991	0.00	8.68	1.62	76.0	15.63	666	99.99
0.0147	0.00	0.128	0.00	1.13	0.00	9.86	1.87	86.4	17.84	756	100.00
0.0167	0.00	0.146	0.00	1.28	0.00	11.2	2.13	98.1	20.49	859	100.00
0.0189	0.00	0.166	0.00	1.45	0.00	12.7	2.43	111	23.71	976	100.00
0.0215	0.00	0.188	0.00	1.65	0.00	14.5	2.77	127	27.63	1110	100.00
0.0244	0.00	0.214	0.00	1.88	0.06	16.4	3.15	144	32.34	1260	100.00
0.0278	0.00	0.243	0.00	2.13	0.13	18.7	3.59	163	37.87	1430	100.00
0.0315	0.00	0.276	0.00	2.42	0.21	21.2	4.10	186	44.18	1630	100.00
0.0358	0.00	0.314	0.00	2.75	0.29	24.1	4.69	211	51.13	1850	100.00
0.0407	0.00	0.357	0.00	3.12	0.37	27.4	5.38	240	58.50	2100	100.00
0.0463	0.00	0.405	0.00	3.55	0.47	31.1	6.18	272	66.02	2390	100.00
0.0526	0.00	0.460	0.00	4.03	0.58	35.3	7.11	310	73.39	2710	100.00
0.0597	0.00	0.523	0.00	4.58	0.71	40.1	8.15	352	80.30	3080	100.00
0.0679	0.00	0.594	0.00	5.21	0.85	45.6	9.33	400	86.48	3500	100.00
0.0771	0.00	0.675	0.00	5.92	1.02	51.8	10.64	454	91.70		