

## Particle Size Analysis By Malvern Mastersizer - 2000

### 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 0.02  $\mu\text{m}$  to 2000  $\mu\text{m}$  (20 nm to 2000 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.

**CONTACT US - DR. KETAN MERCHANT [ MSc., Ph.D - ICT ]**

Send your Enquiries



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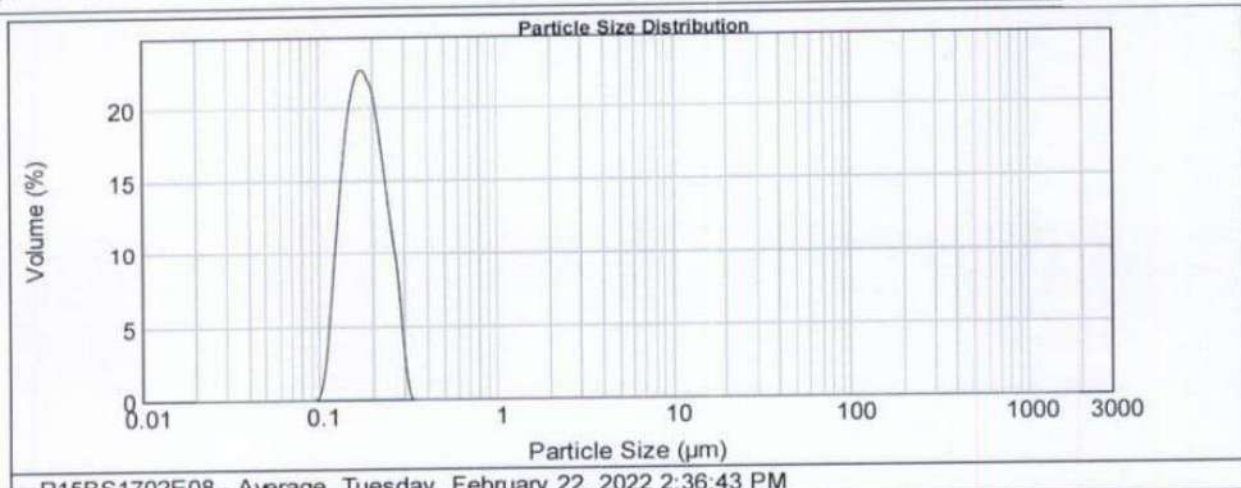
## Result Analysis Report

<b>Sample Name:</b> R15BS1702E08 - Average	<b>SOP Name:</b>	<b>Measured:</b> Tuesday, February 22, 2022 2:36:43 PM
<b>Sample Source &amp; type:</b>	<b>Measured by:</b> Admin	<b>Analysed:</b> Tuesday, February 22, 2022 2:36:44 PM
<b>Sample bulk lot ref:</b>	<b>Result Source:</b> Averaged	

<b>Particle Name:</b> Default	<b>Accessory Name:</b> Hydro 2000S (A)	<b>Analysis model:</b> General purpose	<b>Sensitivity:</b> Normal
<b>Particle RI:</b> 1.520	<b>Absorption:</b> 0.1	<b>Size range:</b> 0.020 to 2000.000 um	<b>Obscuration:</b> 12.04 %
<b>Dispersant Name:</b> Water	<b>Dispersant RI:</b> 1.330	<b>Weighted Residual:</b> 22.534 %	<b>Result Emulation:</b> Off

<b>Concentration:</b> 0.0024 %Vol	<b>Span :</b> 0.656	<b>Uniformity:</b> 0.198	<b>Result units:</b> Volume
<b>Specific Surface Area:</b> 34 m <sup>2</sup> /g	<b>Surface Weighted Mean D[3,2]:</b> 0.176 um	<b>Vol. Weighted Mean D[4,3]:</b> 0.186 um	<b>D(1.00) :</b> 0.31 um

d(0.1): 0.133 um    d(0.5): 0.180 um    D(0.05) : 0.12 um    d(0.9): 0.251 um    D(0.95) : 0.27 um



—R15BS1702E08 - Average, Tuesday, February 22, 2022 2:36:43 PM

Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %	Size (µm)	Vol Under %
0.010	0.00	0.105	0.00	1.095	100.00	11.482	100.00	120.225	100.00	1258.925	100.00
0.011	0.00	0.120	2.86	1.259	100.00	13.183	100.00	138.036	100.00	1445.440	100.00
0.013	0.00	0.138	13.81	1.445	100.00	15.136	100.00	158.489	100.00	1659.587	100.00
0.015	0.00	0.158	31.22	1.660	100.00	17.378	100.00	181.970	100.00	1905.461	100.00
0.017	0.00	0.182	51.46	1.905	100.00	19.953	100.00	208.930	100.00	2187.762	100.00
0.020	0.00	0.209	70.89	2.188	100.00	22.909	100.00	239.883	100.00	2511.886	100.00
0.023	0.00	0.240	86.15	2.512	100.00	26.303	100.00	275.423	100.00	2884.032	100.00
0.026	0.00	0.275	96.31	2.884	100.00	30.200	100.00	316.228	100.00	3311.311	100.00
0.030	0.00	0.316	100.00	3.311	100.00	34.674	100.00	363.078	100.00	3801.894	100.00
0.035	0.00	0.363	100.00	3.802	100.00	39.811	100.00	416.869	100.00	4365.158	100.00
0.040	0.00	0.417	100.00	4.365	100.00	45.709	100.00	478.630	100.00	5011.872	100.00
0.046	0.00	0.479	100.00	5.012	100.00	52.481	100.00	549.541	100.00	5754.399	100.00
0.052	0.00	0.550	100.00	5.754	100.00	60.256	100.00	630.957	100.00	6606.934	100.00
0.060	0.00	0.631	100.00	6.607	100.00	69.183	100.00	724.436	100.00	7585.776	100.00
0.069	0.00	0.724	100.00	7.586	100.00	79.433	100.00	831.764	100.00	8709.636	100.00
0.079	0.00	0.832	100.00	8.710	100.00	91.201	100.00	954.993	100.00	10000.000	100.00
0.091	0.00	0.955	100.00	10.000	100.00	104.713	100.00	1096.478	100.00		

Operator notes:



## Result Analysis Report

Sample Name:  
R15BS1602E07 - Average

Sample Source & type:

Sample bulk lot ref:

SOP Name:

Measured by:  
Admin

Result Source:  
Averaged

Measured:

Tuesday, February 22, 2022 2:42:57 PM

Analysed:

Tuesday, February 22, 2022 2:42:59 PM

Particle Name:  
Default

Particle RI:  
1.520

Dispersant Name:  
Water

Accessory Name:  
Hydro 2000S (A)

Absorption:  
0.1

Dispersant RI:  
1.330

Analysis model:  
General purpose

Size range:  
0.020 to 2000.000 um

Weighted Residual:  
18.622 %

Sensitivity:  
Normal

Obscuration:  
16.04 %

Result Emulation:  
Off

Concentration:  
0.0033 %Vol

Specific Surface Area:  
33.5 m<sup>2</sup>/g

Span :  
0.640

Surface Weighted Mean D[3,2]:  
0.179 um

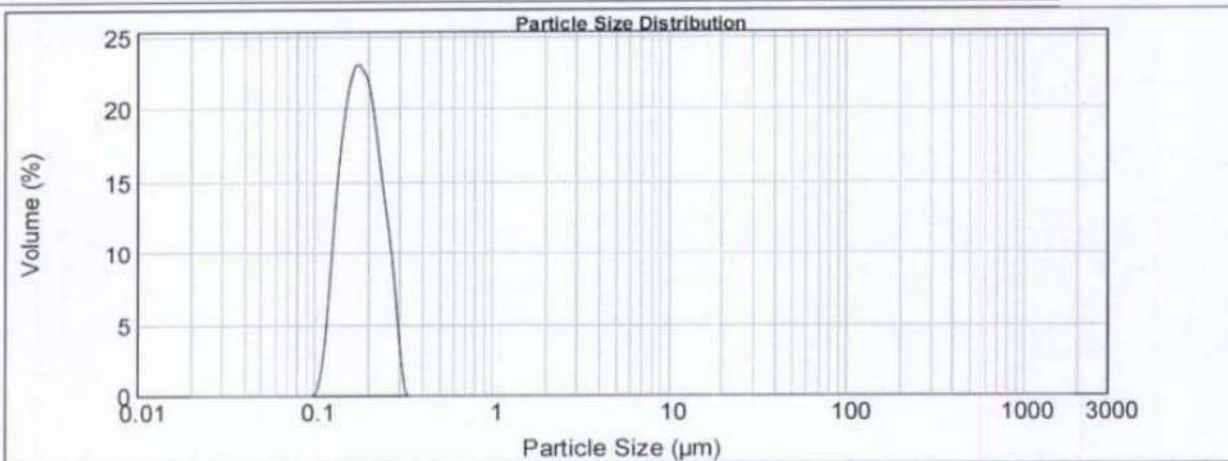
Uniformity:  
0.194

Vol. Weighted Mean D[4,3]:  
0.189 um

Result units:  
Volume

D(1.00) : 0.31 um

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R15BS1602E07 - Average, Tuesday, February 22, 2022 2:42:57 PM

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Operator notes: