

# Malvern 3000 Liquid Analysis v.2

## Measurement Details

**Client** PARTICLE TECHNOLOGY LABS  
**Test Method** MT106.02  
**Operator Name** ebella  
**SOP File Name** QAS Glass Beads.msop  
**Carrier** Aqueous  
**Notes** Quarterly PV

## Measurement Details

**Sample Name** Average of 'QAS4001'  
**Sample ID** Bottle #0147648  
**PTL ID** 7781  
**Analysis Date Time** 10/18/2022 11:56:25 AM  
**Measurement Date Time** 10/18/2022 11:56:25 AM  
**Result Source** Averaged

## Analysis

**Particle Name** Glass Beads (typical)  
**Particle Refractive Index** 1.520  
**Particle Absorption Index** 0.000  
**Weighted Residual** 0.43 %  
**Laser Power** 78.92 %  
**Laser Obscuration** 14.39 %  
**Accessory Name** Hydro MV  
**Software Version** 3.72.1810.240

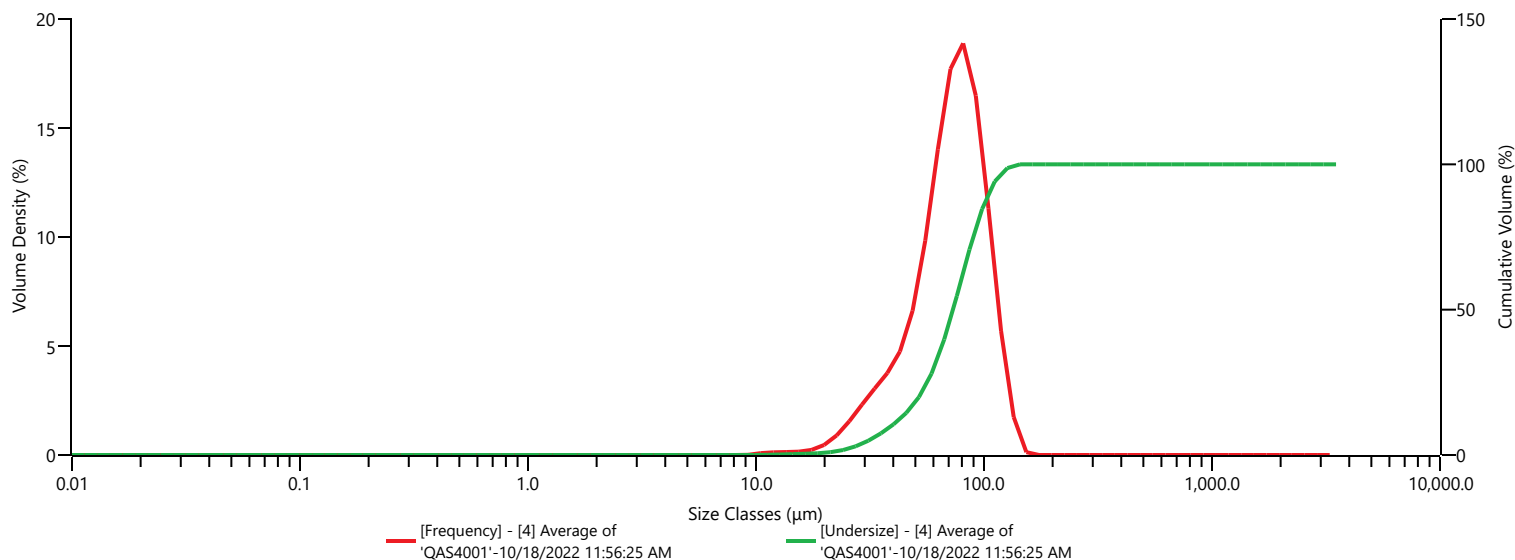
## Result

**Dispersant Name** Water  
**Dispersant Refractive Index** 1.330  
**Analysis Model** Narrow Modes  
**Analysis Sensitivity** Enhanced  
**Are particles non-spherical?** No  
**Scattering Model** Mie  
**Accessory Serial No.** MAL1211922  
**Instrument Serial No.** MAL1220065  
**Virtual Lens Range**

**Dv (10)** 39.2  $\mu\text{m}$   
**Dv (50)** 73.0  $\mu\text{m}$   
**Dv (90)** 105  $\mu\text{m}$

**D [4,3]** 73.0  $\mu\text{m}$   
**Span** 0.908

## Frequency (compatible) and Undersize



## Measurement Details

**File Path** R:\Malvern 3000\Measurement Data\October PV 2022 #673.mmes  
**Record Number** 4  
**Average Result Records**

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<b>Test Method</b> MT106.02
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Result									
Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under	Size (µm)	% Volume Under
0.0100	0.00	0.166	0.00	2.75	0.00	45.6	14.48	756	100.00
0.0114	0.00	0.188	0.00	3.12	0.00	51.8	19.90	859	100.00
0.0129	0.00	0.214	0.00	3.55	0.00	58.9	28.02	976	100.00
0.0147	0.00	0.243	0.00	4.03	0.00	66.9	39.75	1110	100.00
0.0167	0.00	0.276	0.00	4.58	0.00	76.0	54.69	1260	100.00
0.0189	0.00	0.314	0.00	5.21	0.00	86.4	70.69	1430	100.00
0.0215	0.00	0.357	0.00	5.92	0.00	98.1	84.63	1630	100.00
0.0244	0.00	0.405	0.00	6.72	0.00	111	94.10	1850	100.00
0.0278	0.00	0.460	0.00	7.64	0.00	127	98.72	2100	100.00
0.0315	0.00	0.523	0.00	8.68	0.00	144	100.00	2390	100.00
0.0358	0.00	0.594	0.00	9.86	0.00	163	100.00	2710	100.00
0.0407	0.00	0.675	0.00	11.2	0.08	186	100.00	3080	100.00
0.0463	0.00	0.767	0.00	12.7	0.18	211	100.00	3500	100.00
0.0526	0.00	0.872	0.00	14.5	0.29	240	100.00		
0.0597	0.00	0.991	0.00	16.4	0.42	272	100.00		
0.0679	0.00	1.13	0.00	18.7	0.60	310	100.00		
0.0771	0.00	1.28	0.00	21.2	0.97	352	100.00		
0.0876	0.00	1.45	0.00	24.1	1.71	400	100.00		
0.0995	0.00	1.65	0.00	27.4	2.99	454	100.00		
0.113	0.00	1.88	0.00	31.1	4.92	516	100.00		
0.128	0.00	2.13	0.00	35.3	7.47	586	100.00		
0.146	0.00	2.42	0.00	40.1	10.58	666	100.00		

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