
Particle Size & Shape Control Assay Sheet

Glass Spheres Control (42 μm nominal)

LOT #: 10012020

EXPIRATION DATE: 13-May-2024



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Sample Description

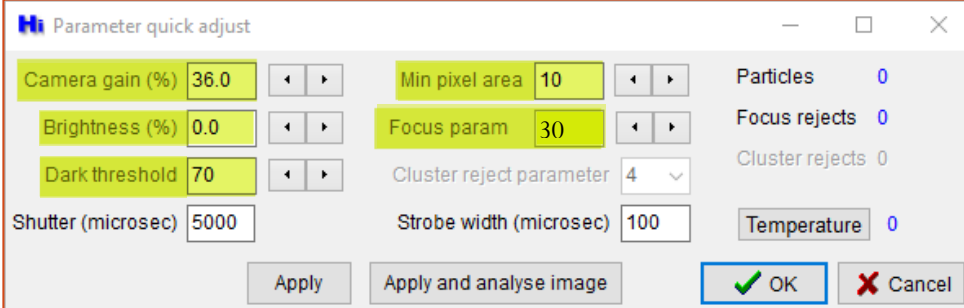
This Particle Size & Shape Control Material is a dry glass sphere with a controlled particle size reported through the Equivalent Circular Area Diameter (ECA Diameter) measure. The ECA Diameter reports particle size assuming that the particle is circular or spherical in shape. The nominal size (Mode) for this control sample is 42 µm.

Sample parameters:

It is recommended that the Control be suspended in water prior to analyzing in the Particle Size & Shape Analyzer.

- Select the **Setting** tab and open the settings file SmallSpheres.psf
- Select the **Image** tab and click on the icon  (Parameters quick adjust)
- Enter the following Image Analysis Parameters into the software:

Camera Gain	36 %
Brightness	0 %
Dark Threshold	70
Min Pixel Area	10
Focus param	30



Parameter quick adjust

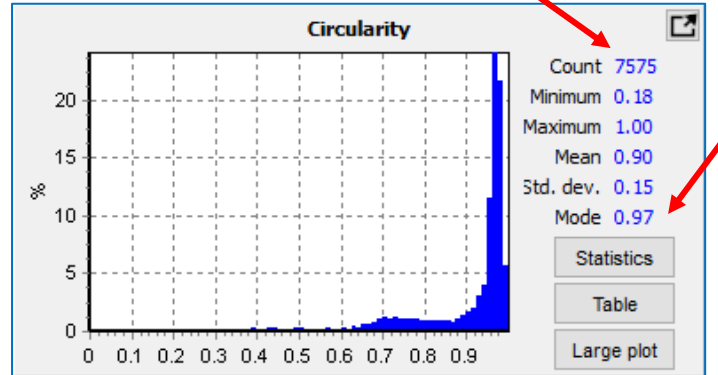
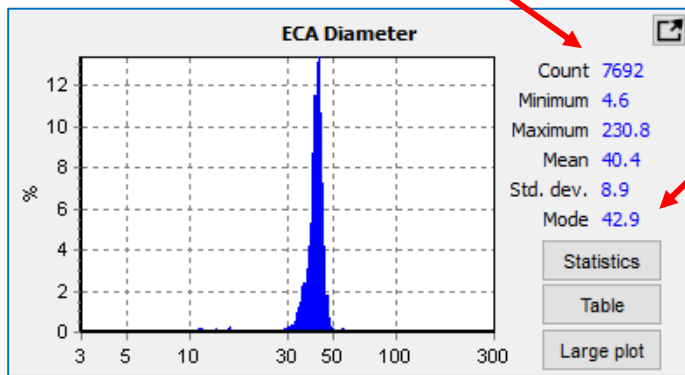
Camera gain (%)	36.0	Min pixel area	10	Particles	0
Brightness (%)	0.0	Focus param	30	Focus rejects	0
Dark threshold	70	Cluster reject parameter	4	Cluster rejects	0
Shutter (microsec)	5000	Strobe width (microsec)	100	Temperature	0

Apply Apply and analyse image OK Cancel

- Click on **Apply**, then **OK**.

Results:

Below is a histogram and data showing the ECA Diameter in Number Weighted distribution as well as Circularity.



<u>Description</u>	<u>Results</u>
Measurement type	ECA Diameter/Circularity – Number Weighted
Expected Size Results	MODE: 42.68 μm +/- 10%
Expected Circularity results	MODE RANGE: min 0.930 - max 0.990
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