Whitehouse Scientific
Setting the Standard since 1983

NIST TRACEABLE
SODA-LIME GLASS MICROSPHERES

Image Analysis Standards

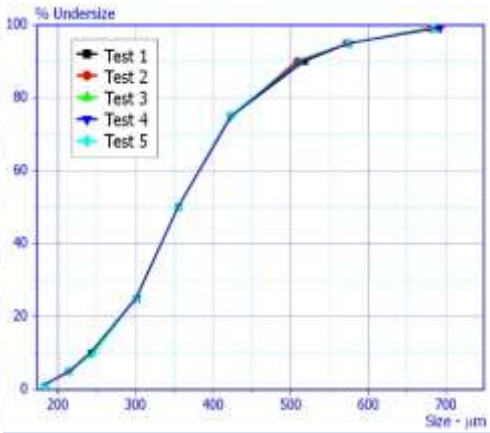
170-710µm

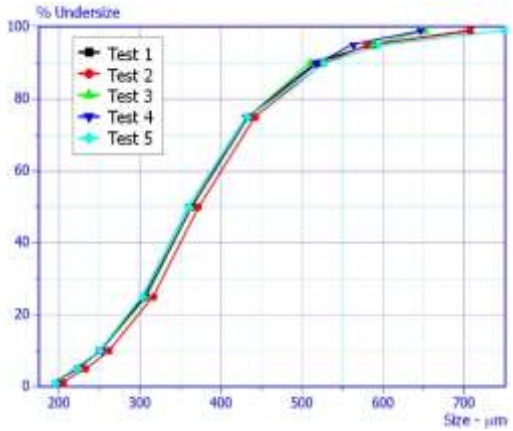
Part Number: IA025
Nominal Weight: 10.0g x 10 bottles

Certificate of Analysis

Whitehouse Scientific
Whatever the particle sizing method...we have the perfect solution! www.WhitehouseScientific.com

NIST TRACEABLE
IMAGE ANALYSIS STANDARD





Issued by:

Dr G R Rideal
Founder & Senior Analyst

Notes:
1) Although the microscope repeatability is better than 2%, calibration results within 5% of the standard are acceptable.
2) Traceability graticules: NIST test no. 821/263573-00, NPL ref no. 0804038/970127/106-66. For a summary of the analytical methods see – Rideal G R, Dodds J A & Pons M-N, Leschonski K, Lloyd P J, and Mercus H G, The Development of New Reference Standards for Particle Size Instrument Calibration, World Congress on Particle Technology 3, (IChemE) July 1998, Brighton, UK. Full details available from www.WhitehouseScientific.com.

Percentile	**5**	**10**	**25**	**50**	**75**	**90**	**95**
Electroformed Sieving							
Mean Size (wt) - µm	214	244	301	355	423	513	575
Uncertainty - µm	0	2	1	1	2	7	5
							(5 x 5g)
Microscopy							
Mean Size under (vol) - µm	225	254	308	364	435	520	583
Uncertainty - µm	8	10	10	10	10	14	23
							Total count = 22,500 (5 x 0.2g)
Combined - µm	220	249	305	360	429	516	579
Uncertainty - µm (95% confidence)	13	12	10	11	14	13	18

EXAMPLE
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EXAMPLE
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EXAMPLE
EXAMPLE