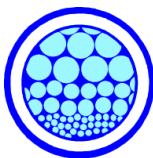


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Europe's Leading Particle Size Certification Laboratory Europe's Leading Particle Size Certification Laboratory Europe's Leading Particle Size Certification Lab

## Certificate of Analysis

NIST Traceable Glass Microspheres

### Image Analysis Standard

**1400 – 5000 $\mu$ m**

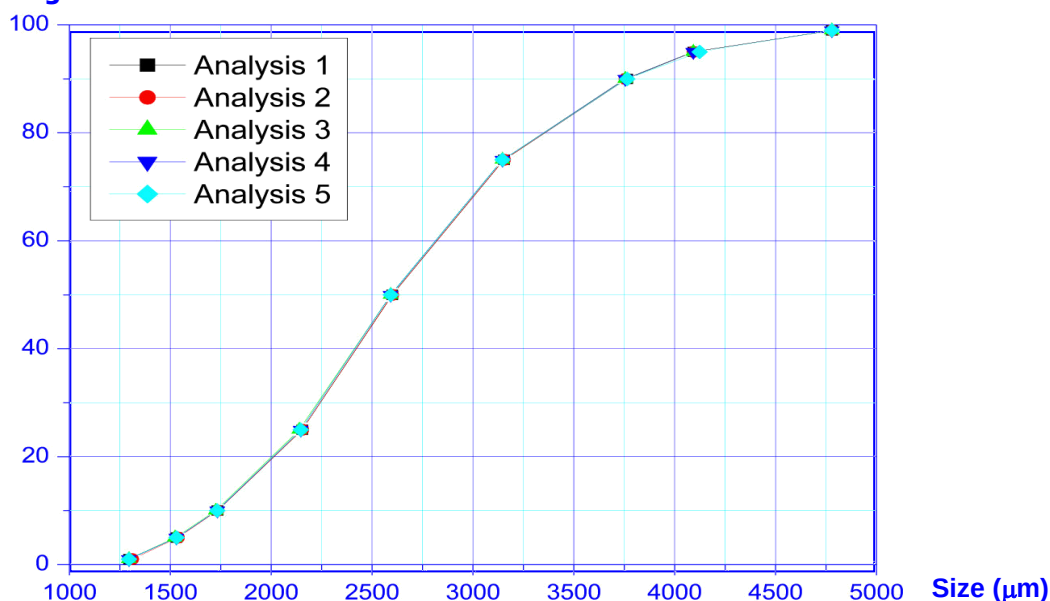
Catalogue Number: XX035

Sample Weight: 500g

FOR REFERENCE ONLY

#### 1. Graphical Review

Percentage Undersize



#### 2. Tabular Summary

| Cumulative % Undersize                    | 1    | 5    | 10   | 25   | 50   | 75   | 90   | 95   | 99   |
|-------------------------------------------|------|------|------|------|------|------|------|------|------|
| Analysis 1                                | 1296 | 1531 | 1734 | 2155 | 2600 | 3155 | 3764 | 4092 | 4779 |
| Analysis 2                                | 1312 | 1538 | 1734 | 2155 | 2600 | 3155 | 3756 | 4092 | 4779 |
| Analysis 3                                | 1296 | 1523 | 1726 | 2140 | 2593 | 3147 | 3756 | 4092 | 4779 |
| Analysis 4                                | 1296 | 1534 | 1734 | 2147 | 2593 | 3147 | 3756 | 4092 | 4779 |
| Analysis 5                                | 1296 | 1531 | 1734 | 2147 | 2593 | 3147 | 3764 | 4123 | 4779 |
| Mean Size - $\mu$ m                       | 1299 | 1531 | 1732 | 2149 | 2596 | 3151 | 3759 | 4098 | 4779 |
| Uncertainty - $\mu$ m<br>(95% confidence) | 14   | 11   | 7    | 13   | 8    | 9    | 9    | 27   | 0    |

Issued by:

Dr G R Rideal  
– Senior Analyst

#### Notes:

- (1) This certificate is only applicable for repeated use of the sample provided any weight loss is restricted to 3%.
- (2) The primary particle sizing method was sieve analysis using NIST traceable wire woven sieves. Each sieve was calibrated microscopically using the following traceable stage reference gratitudes - NIST test no. 821/263573-00.  
For a summary of the analytical method 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 Whitehouse Scientific Ltd ([www.WhitehouseScientific.com](http://www.WhitehouseScientific.com)).

