



Bahnstraße 10
D-65205 Wiesbaden

Tel.: 0611 / 7-888-999
Fax: 0611 / 97-218-44

Email: support@bs-partikel.de
URL: http://www.bs-partikel.de

Certificate of Analysis

Catalog No.:
MS0002-05
MS0002-20

Multi-Size-Standard 0,2 - 2 µm

Lot No: **MS570.161**

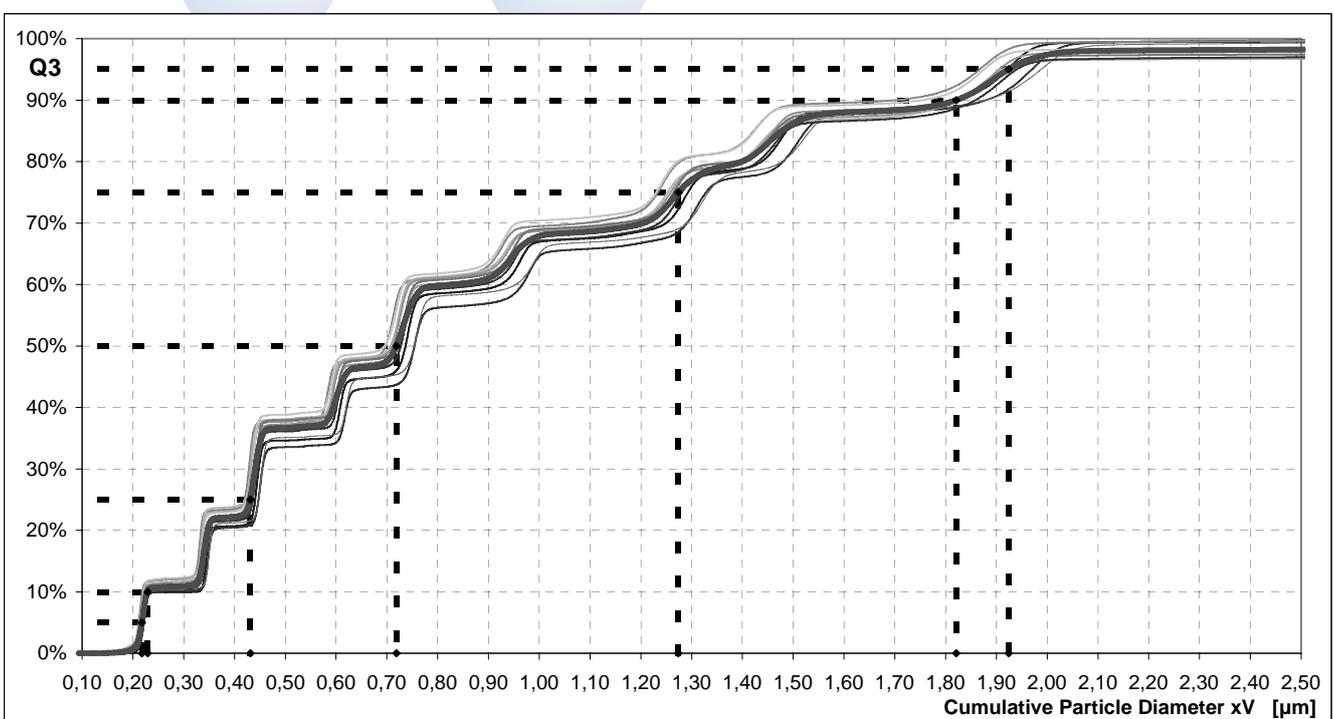
This product, supplied in a dropper-tipped bottle with a magnetic stir bar, consists of 9 single particle size standards in the size range of 0,2 - 2 µm. The cumulative, volume weighted particle size distribution of this stabilized mixture has been determined very accurately by measuring 10 representative samples of this lot.

Particle Sizing Instrument: Analytical Disc Centrifuge DC20000, CPS Instruments Inc., Stuart - USA
 Rotational Speed: 20000 rpm
 Instrument Calibration: With 3 external, NIST (Nat. Inst. of Standards and Technology) traceable calibration standards

d%	d5	d10	d25	d50	d75	d90	d95
xV [µm]:	0,22	0,23	0,43	0,72	1,27	1,82	1,92
Unsicherheit:	0,01	0,10	0,02	0,04	0,06	0,12	0,06

Wiesbaden, 29.6.2016

.....
Dr. Bernd Schied



The bold curve represents the averaged curve of 10 single measurements (thin curves). The dashed lines show the single d% values (d5, d10, d25, d50, d90, d95).

Physical Data:

Particle Concentration: 2.0%

Chemical Composition: Aqueous Suspension consisting of:

Polystyrene,
Surfactants (<0.1%), Preservatives (<0.05%)

Polymer Density: 1.05 g/mL

Refractive Index: 1.59 (25°C, 589nm)



Bahnstraße 10
D-65205 Wiesbaden

Tel.: 0611 / 7-888-999
Fax: 0611 / 97-218-44

Email: support@bs-partikel.de
URL: http://www.bs-partikel.de

Certificate of Analysis

Bestell-Nr.:
MS0002-05
MS0002-20

Anwendung

Being able to apply this product properly the content of the bottle has to be prepared as a homogeneous suspension:

1. Shake the dropper-tip bottle until no sediment is visible
2. Allow the dropper-tip bottle to stir at a magnet stirrer for appr. 30 seconds
3. Put the dropper-tip bottle into an ultra sonic bath for appr. 5 minutes
4. Homogenise the content of the bottle with the magnetic stirrer for 1 minute again
5. Dispose the first drop and then - depending on the measurement system.....
 - a) either drop the standard without any dilution into the measurement system directly or
 - b) apply cautious magnetic stirring to particle free water and drop the standard into simultaneously
6. Start measurement



Storage, Shelf Life

Shipping Date:



This particle standard can be applied without any quality loss for 2 years from shipping date. Freezing, solar radiation, drying or any contamination make this standard unusable for measurement purposes. Therefore please note the following advices.

- Keep the dropper-tipped vial sealed all the time.
- Do not touch the dropper-tip with fingers; do not clean it with towels or contact it with other chemicals.
- Recommended storage temperature is 4°C - 15°C; optimal temperature is 8°C; do not freeze!
- Multi-Size Standards are reference substances.
Hence, store them definitely separated from other chemicals of daily use.