



Nestléstr. 41
55120 Mainz
Germany
+49 (0)6131 55 400 80
Email: support@bs-partikel.de
URL: http://www.bs-partikel.de

Certificate of Calibration

Catalog No.:
Pu0450-01

Particle Powder Standard Lot No.: Pu432.110

The lot of this particle size standard had been size-characterized during and after filling under highest accuracy. The determined mean particle size diameter x_N is traceable to the "Standard Meter" according to the National Institut of Standards and Technology (NIST). The data have been determined from several samples of this lot by dispersing them in methanol first using an ultrasonic bath. Then they have been dispersed in pure water by cautious stirring with an magnetic stirrer and measured.

Particle Sizing Instrument: Particle sizing system "Syringe", Markus Klotz GmbH - Bad Liebenzell, Germany
Sensor Type: 8032 Calibr. Curve: 100727.cal Flow [mL/min]: 16.0

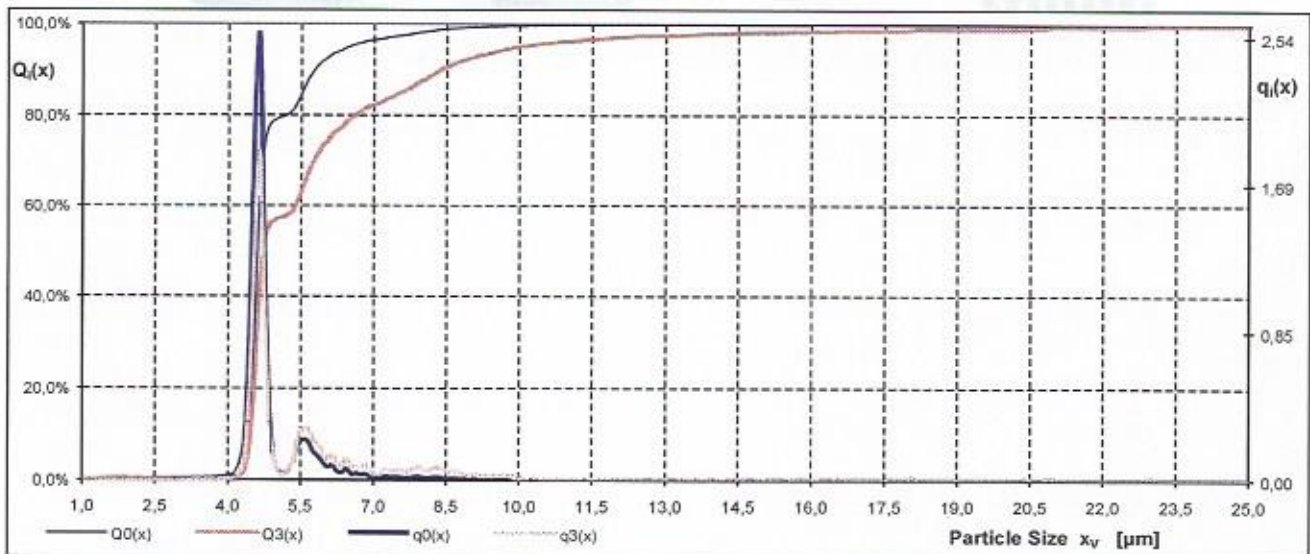
Particle Diameter (Mode): $x_N = 4.63\mu\text{m} \pm 0.12\mu\text{m}$ $x_v = 4.64\mu\text{m} \pm 0.12\mu\text{m}$

Wiesbaden, 15.09.2010

B. Schied
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Dr. Bernd Schied

Physical Data:

Standard Deviation: 0.14 μm relative to x_N
Rel. Standard Dev. (C.V.): 3.1% relative to x_N
Polymer Density: 1.05 g/ml
Refractive Index: 1.59 (25°C, 589nm)
Chemical Composition: White powder consisting of: Poly-(styrene-divinylbenzene)





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Storage, Shelf Life

This particle size standard can be applied without any quality loss until: **2018 Jun 2nd**

Please please note the following recommendations:

- Keep the bottle sealed all the time.
- Do not touch the rim of the opened vial with fingers; do not clean it with towels or contact it with other chemicals. Prevent moist storage conditions!
- Recommended storage temperature is 4°C - 15°C; optimal temperature is 8°C; do not freeze!
- Particle size standards are reference substances.
Hence, store them definitely separated from other chemicals of daily use.