

Product:

Test Particles

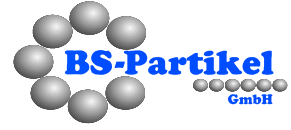
Catalog Number:

Te1500-25

Lot No.:

Te304.209

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"Test Particles" are aqueous dispersions generally used to be applied for experiments, evaluations or simulations of specific particle situations (filter retention tests/-efficiency, studies of flow characteristics, etc.).

"Test Particles" are **not** designed for calibration of particle sizers. For this purpose we recommend our certified particle size standards.

Solid Contents: **5%**

Particle Diameter (Mode):

$x_N = 15.3\mu\text{m} \pm 0.3\mu\text{m}$

$x_V = 15.4\mu\text{m} \pm 0.3\mu\text{m}$

Relat. Standard Deviation (C.V.): **5.0%** rel. to x_N

Refractive Index: 1.59 (25°C, 589nm)

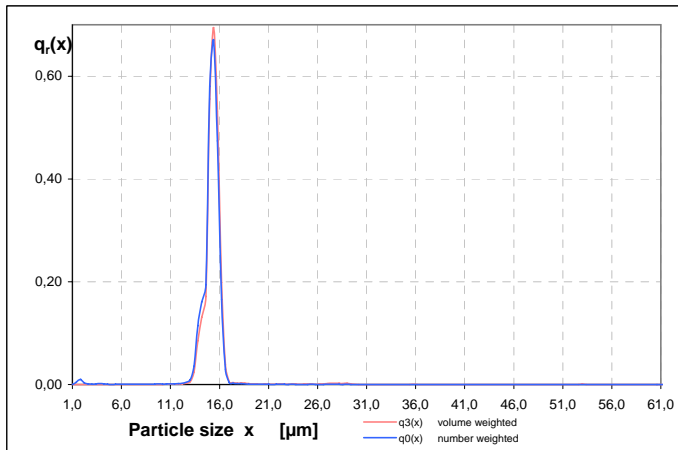
Polymer Density: 1.05 g/ml

Chemical Composition:

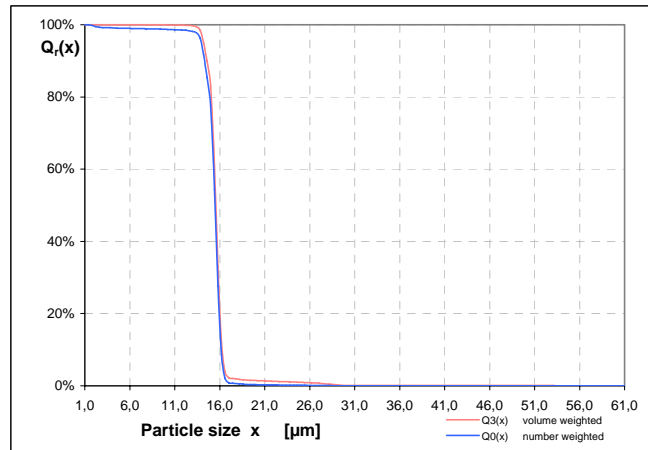
Poly(styrene-co-divinylbenzene)
water, surfactants (<0.1%), preservatives (<0.05%)

Particle Sizing System:

Single optical particle sizing system "Syringe", Markus Klotz GmbH, Bad Liebenzell - Germany



where is: $q_0 = (N_1 - N_2) / (N_{\text{all}} \cdot dx)$ $q_3 = (V_1 - V_2) / (V_{\text{all}} \cdot dx)$
 dx : channel width



$Q_0 = 100 \cdot N_i / N_{\text{all}}$ $Q_3 = 100 \cdot V_i / V_{\text{all}}$
 N_i and V_i : number and volume of all particles $\geq x_i$