

Product:

Test Particles

Catalog Number:

Te1000-25

Lot No.:

Te281.101

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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): $x_N = 10.4\mu\text{m} \pm 0.2\mu\text{m}$

$x_V = 10.5\mu\text{m} \pm 0.2\mu\text{m}$

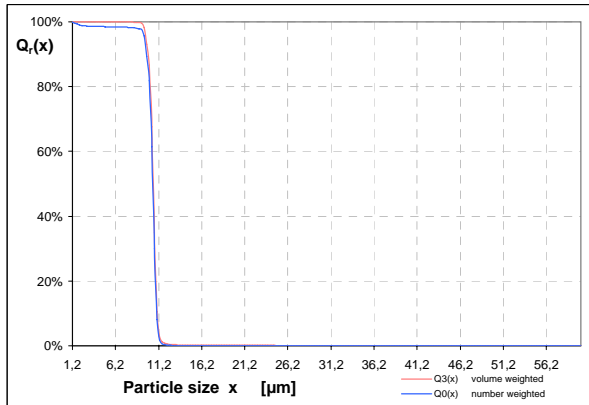
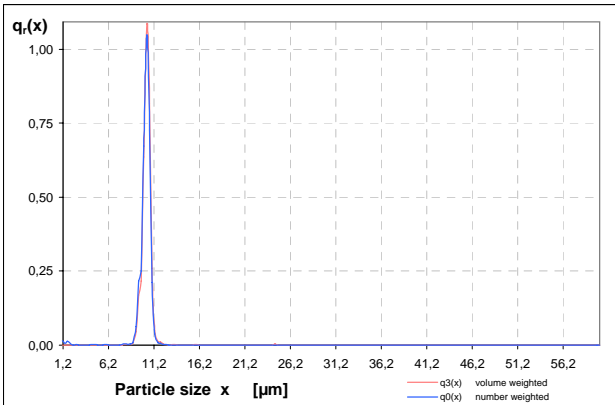
Relat. Standard Deviation (C.V.) 5.0% rel. to x_N

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:
 $q_0 = (N_1 - N_2) / (N_{\text{all}} \cdot dx)$
dx: channel width

$$q = (V_1 - V_2) / (V_{\text{all}} \cdot dx)$$

$Q_0 = 100 \cdot N_1 / N_{\text{all}}$
 $Q = 100 \cdot V_1 / V_{\text{all}}$
 N_i and V_i : number and volume of all particles $\geq x$