

Product: **Test Particles**

Catalog Number: **Te0400-25**

Lot No.: **Te211.101**

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"Test Particles" are aqueous dispersions generally used to be applied for experiments, evaluations or simulations or 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):  $x_N = 4.1\mu\text{m} \pm 0.1\mu\text{m}$   $x_V = 4.1\mu\text{m} \pm 0.1\mu\text{m}$

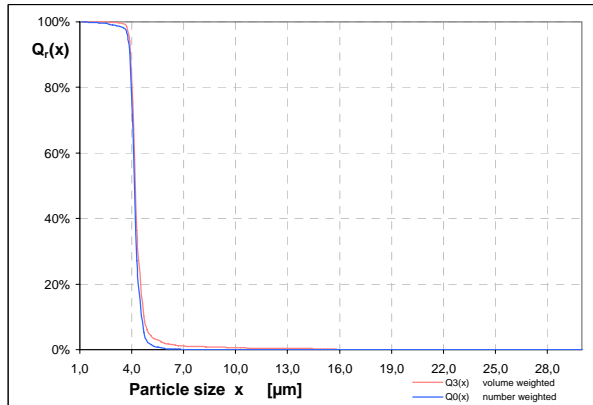
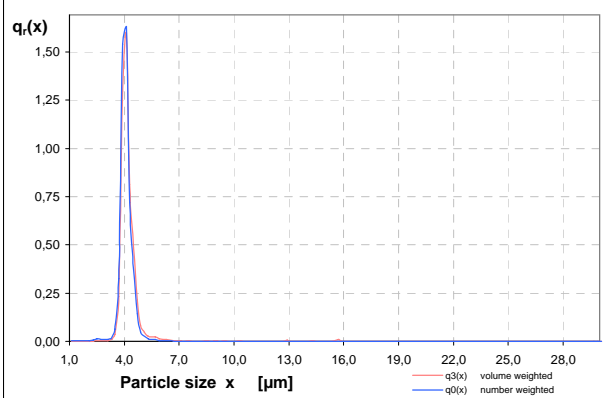
Relat. Standard Deviation (C.V.) 7.2% rel. to  $x_N$

Refractive Index: 1.59 (25°C, 589nm)

Polymer Density: 1.05 g/ml

Chemical Composition: Polystyrene  
water, surfactants (<0.1%), preservatives (<0.05%)

Particle Sizing System: Single optical particle sizing system "Syringe", Markus Klotz GmbH, Bad Liebenzell - Germany



where is:  
 $dx$ : channel width

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

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

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