



ZAPYTANIE OFERTOWE nr 06/2025

### Załącznik nr 3

## Particle Size Analysis Method

### Particle Size (By Malvern Mastersizer)

Instrument: Malvern, Mastersizer 3000

Accessory Name: Hydro MV

Analysis Model: General Purpose

### Particle Type:

- Spherical Particle Mode: Yes
- Ultrasonic Active During Measurement: Not Required
- Agitation Speed: 2000 RPM
- Circulation Speed: 2000 RPM
- Background Time: 12 sec.
- Measurement Time: 12 sec
- Particle Refractive Index: 1.614
- Absorption Index: 1.000
- Distribution Type: Volume
- Dispersant Name: Toluene
- Refraction Index: 1.490
- Level Sensor Threshold: 25.000
- No. of Measurement: 02
- Obscuration: 10–15%
- Sensitivity: Normal
- Density: 1.00 g/cm<sup>3</sup>

### Procedure:

Weigh 100 mg sample to 50 ml beaker. Add 1 ml toluene and add 5 drops Span-85 & make uniform paste using spatula for 2 min. Further add up to 20 ml of toluene and mix well. Sonicate externally for 60 seconds with continuous stirring with spatula to get uniform dispersion. Calculate the average value for d90, d50 & d10.