
Particle Size Analysis Report

Customer

Address 1
Address 2
Address 3
Address 4
Address 5
Post Code

PTL Job Reference xxxx

Customer Order xxxxxx

Test Date: xxxxxxxx

Sample Description

One sample labelled xxxxxx was supplied for the determination of particle size and distribution.

Method

The sample was dispersed with DI water, it required one drop of NP40 wetting agent. The sample required 25 minutes in an ultrasonic bath to break up the agglomerates that were present. The dispersion was then examined by optical microscopy to verify that there was a good dispersion and to gain an approximate size distribution. The dispersion was then added drop wise to the Horiba LA-950 laser diffraction instrument. Triplicate samples were taken and determined.

Results

See printout for full size distribution data.

%(mass) particles less than $10\mu\text{m}$: 25.54%

Median: $22.52\mu\text{m}$

Comments

There was a good correlation between observations made under the microscope and the results given by the Horiba laser diffraction instrument. The sample was very agglomerated and it required significant ultrasonic to separate into primary particles.

From microscope observations all of the particles appeared non-organic and had crystalline structures, most of the larger particles (> ~100um) had aspect ratios between 0.6 – 0.8 whereas the smaller particles were more regular in shape with aspect ratios > 0.8. There did not appear to be any fibres or needles present in the sample.

Analysis performed by:

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