



HOW TO SEE A SMALL FRACTION OF LARGE PARTICLES ON THE PARTICA LA-960

Summary

Customers are often interested in identifying a small fraction of large particles or small particles in their sample. Some specifications call for all of their material to be below a certain size, for example CMP slurry, pharmaceuticals, milled food products, industrial powders, among others.

When the sample is run at the normal T% range there is not enough of the larger particles for the instrument to detect. The solution is to run at a lower than normal T%. 70-50%T is a good starting point. This will get the actual number of particles high enough for the instrument to see.

Analytical test method

RI (particle): Use sample RI

Agitation speed: fast enough to keep the largest particles suspended

Notes: Start at 70%T and work down around 50%T.

Example data

File Name: Mix of Micro Emulsion & Macro Emulsion

Median: 0.185 μm

Mean: 0.720 μm

S. D.: 1.739 μm

D(10%): 0.135 μm

D(90%): 2.085 μm