

How to See a Small Fraction of Large Particles on the Partica LA-960

Introduction

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. Examples include CMP slurries, 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.

Note: 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

Results

The LA-960 offers outstanding range of measurement with accuracy and precision.