

**AimSizer/LNO.0029**

**Comparison of Determination Results of Laser Particle Size Analyzer and Transmission Electron Microscope**

**Abstract:** In order to compare the difference of measure results between laser particle size analyzer and transmission electron microscope (TEM), three samples of ZnO powder with different size were chosen. The two measure methods were introduced to measure the particle size. The results were analyzed and compared, and the experimental phenomena were explained. The results showed that the difference of particle size results between the two measure methods became bigger when the particle size of ZnO powder was smaller. The particle size results of the three samples differ separately approximately 760, 170, 100 times. It was suggested that the particle size measure method should be chosen according to the situation.

**Key words:** ZnO powder; particle size; comparison; laser particle size analyzer; particle size analyzer; aimsizer; as-2011 micron laser particle size analyzer; as-2012 submicron laser particle size analyzer

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