

Particle Characterization: Module 11, Lecture 31

1. What effect does particle concentration have on sono-fragmentation?
2. How do surfactants influence sono-fragmentation?
3. What effect does sonication have on particle sphericity?
4. How would you design a continuous process for sono-fragmentation?
5. Define dispersion & distribution in the context of nano-particle suspensions in liquids and in composite materials.
6. Sketch the 4 zones of distributive & dispersive mixing.
7. Identify quantitative metrics for dispersion & distribution.
8. What are some benefits of sono-dispersion?
9. Name some functional properties of nano-composites that can be enhanced by sono-dispersion.
10. Sketch a complete process for sono-synthesis of nano-composites.