

Particle Characterization: Module 8, Lecture 20

1. Sketch the various states of cohesion.
2. Write an expression for total cohesion force.
3. Name some ways in which cohesion can be countered.
4. How does capillary cohesion force depend on particle size, angle of cohesion?
5. How does viscous cohesion force depend on particle size?
6. How does spring force depend on particle size and distance of separation?
7. What effect do particle size, temperature and fluid viscosity have on cohesion?
8. Name 2 ways in which particle size distribution can indicate extent of cohesion.
9. Define dimensionless mean curvature.
10. Why do nano-particles exhibit greater cohesion?