

## **Particle Characterization: Module 12, Lecture 37**

1. Why are mines susceptible to explosions?
2. Contrast detonation & deflagration.
3. Name some ways to minimize ignition risks in metal-processing environments.
4. Define hazard potential of ignition & explosion.
5. What particle properties affect hazard potential?
6. Distinguish between ignition, flash & fire temperatures for a heat-transfer fluid.
7. Define SMD.
8. Identify key non-dimensional parameters influencing fluid aerosolization.
9. Draw a decision chart involving SMD and ignition safety of a heat-transfer fluid.
10. How is operating cost related to these parameters?