SPEC provides complete material and particle analysis for powders and granular materials for design of complex handling and processing applications.

**KNOW YOUR STUFF**

**BULK MATERIAL PROPERTIES**
- Density: loose, tampered, and true solids density
- Fluidization and Bulk Porosity
- Particle Size Analysis: laser, vac sieve, ro-tap, and microscopy
- Particle Geometry: shape distribution, aspect ratio, sphericity
- Hardness: friability and elastic properties

**MATERIAL EXPLOSIVE PROPERTIES**
- Kst, dp/dt, and Pmax
- Minimum Ignition Energy (MIE)
- Minimum Explosion Concentration (MEC)
- Minimum Autoignition Temperature of a Dust Cloud (MAIT)
- Hot Surface Ignition Temperature of Dust Layers (AIT)

**MATERIAL DYNAMIC PROPERTIES**
- Angle of repose, angle of slide
- Coefficient of friction
- Compressibility and compaction
- Static generation and dielectric

**MATERIAL CHEMICAL PROPERTIES**
- Solubility: pH and dissolution
- Moisture Analysis
- Hygroscopicity
- Melt Point: softening or plastic phase
- Flash Point