

### Why do I need a chemical reactivity assessment?

Chemical reactivity assessments are used to evaluate chemical reactivity hazards present in processing of reactive materials. This data is often used to meet process safety management (PSM) regulatory requirements, process specifications and complete pressure relief and flare system design.

### Types of Chemical Reactivity Hazards

- Runaway reactions
- Unanticipated decompositions
- Smoldering fires
- Phase changes

### Potential Applications

- Chemical reactivity evaluation
- Isothermal evaluation
- Safe storage conditions
- Kinetic modeling
- Boiling and melting point determination
- Process simulation and optimization
- Meeting regulatory requirements

### Chemical Reactivity Testing and Analysis

- Adiabatic Reaction Calorimetry
- Differential Scanning Calorimetry
- Thermogravimetric Analysis
- Isothermal Reaction Calorimetry