

Reactive Hazard Characterization

A Smart Testing Strategy

Select the right tool for the right job

Screening for Energetic Behavior

- CHETAH®
- DSC
- Carius Tube

Intended Chemistry

- RC1

Upset Conditions

- ARC™
- VSP2™
- ARSST™

Screening for Energetic Behavior



- CHETAH: Software tool to predict both thermochemical properties and certain reactive chemicals hazards.
- DSC: Good choice if sample material is limited. Fast and easy method.
- Carius Tube: Uses glass to address metal reactivity concerns.

Intended Chemistry

Reaction Calorimeter

- RC1: Measures the amount of energy released (or absorbed) from a chemical reaction. Optimizes process conditions to facilitate safe scale-up.



Upset Conditions

Adiabatic Calorimetry

- ARC™: Obtains kinetic parameters as well as temperature and pressure profiles for a sample.
- VSP2™: Data applicable for vent sizing. Suitable for semi-batch additions of liquid.
- ARSST™: Ideal for highly energetic, gas-generating samples.



Contact DEKRA to review your process and discuss the Reactive Hazard Test that best addresses your needs.

CONTACT US

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 **DEKRA**
On the safe side.