

Isothermal Calorimetry

Fauske & Associates uses the TAM (Thermal Activity Monitor) to detect chemical activity that could develop into a thermal runaway during transport or storage of bulk quantities.



Applications

- ✦ Chemical reactions (batch)
- ✦ Bio-activity (fungi, rotting)
- ✦ Products
- ✦ Isothermal heat production at storage conditions
- ✦ Interaction tests
- ✦ Auto catalytic behavior test

Typical Parameter

- ✦ Heat production (μW)

The data obtained provides the ability to:

Specifications

- Assure safe chemical management in transportation and storage
- Determine activation energies
- Determine rate laws
- Evaluate fermentation rates
- Determine vapor pressure
- Measure oxidation or corrosion rates (oxygen consumption)
- Quantify shelf life
- Control product quality

- ✦ Temperature range: 5-90°C
- ✦ Temperature stability: 0.1 mK (= 0.0001°C)
- ✦ Pressure range: 0-50 barg
- ✦ Sample volumes: up to 4 ml
- ✦ Lower heat limit: 1 μW Upper heat limit: 3 mW



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