

Accelerating Rate Calorimetry

**The World's Benchmark Adiabatic Calorimeter
Now with expanded options:**

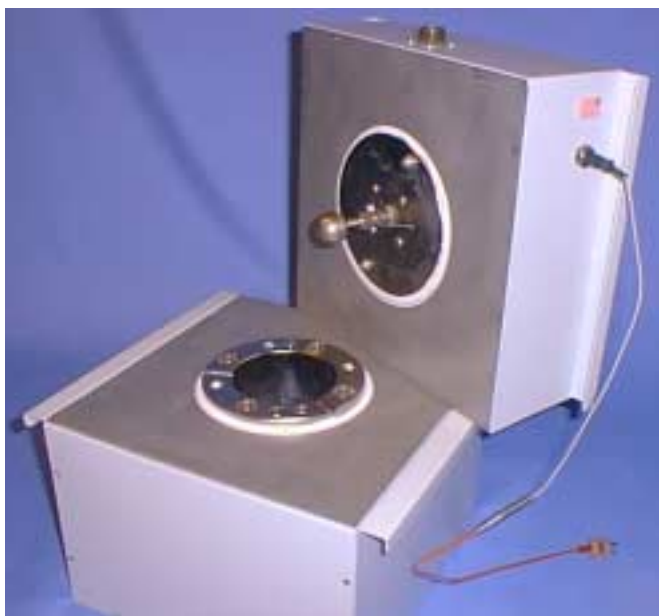


Thermal Hazard Technology uniquely manufacture the Accelerating Rate Calorimeter to the original Dow specification. In addition the THT Accelerating Rate Calorimeter has been expanded to provide additional functionality including:

- Cryogenic and sub-ambient operation
- Vent size determination and stirring
- Low ϕ and fast tracking
- Gas collection and scrubbing
- Sample addition and dosing

Accelerating rate calorimetry is an ideal tool for determining potential exothermic reaction of materials and provides a realistic worst case simulation of runaway conditions.

The collection of simultaneous temperature, pressure, and temperature rate data provides rapid access to all of the required information about the hazards of the material and process.

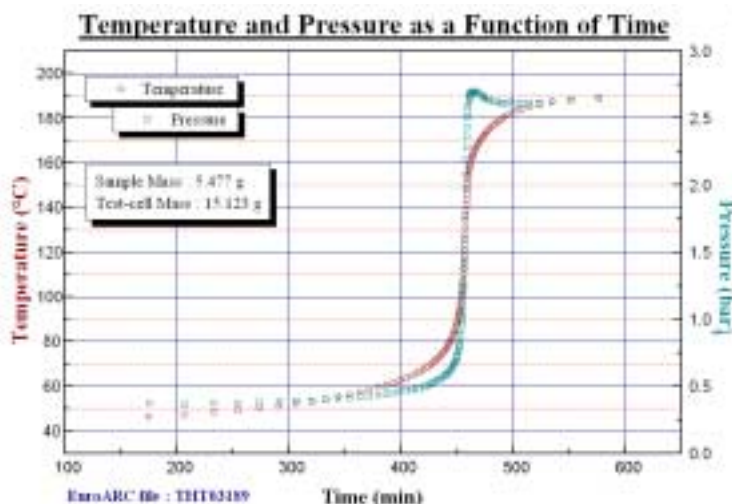
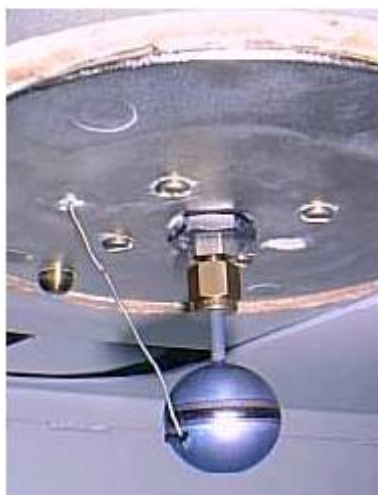


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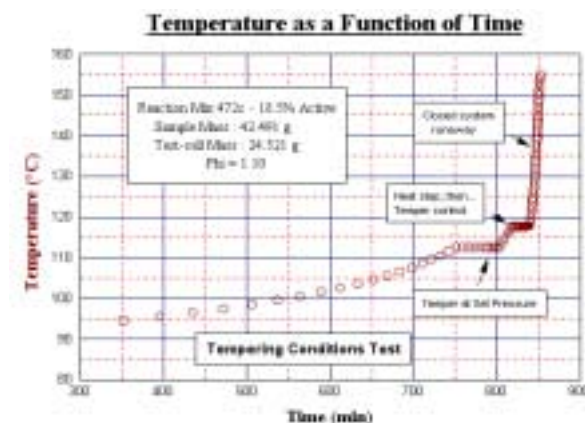
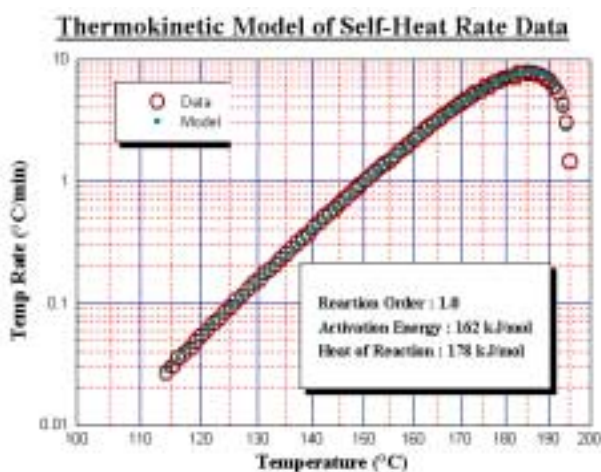
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Easy to use, Unparalleled Adabaticity, Simple Data Analysis and with Exceptional Sensitivity



The THT Accelerating Rate Calorimeter uses Windows-based software for control and data collection making it easy to operate and understand. Data analysis is performed within a standalone package offering rapid access to meaningful data, charts and advanced analysis. In addition the new analysis software provides ϕ -correction, gas production and kinetic modelling.



Left: Kinetic Modelling Above: Vent Size Analysis

Thermal Hazard Technology also offers a Commercial Sample Service for those with limited test requirement (or budget!). Testing of samples can be done at either of the THT offices, in the USA and UK.

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