



ASTM E-537

Test Method for Thermal Stability of Chemicals by DSC

This method is used to measure, using a Differential Scanning Calorimeter, the temperatures at which thermal transitions occur within a given chemical substance (may be a solid or liquid). It is desirable to know at which temperatures chemicals undergo changes as an early detection method for potentially hazardous reactions for example the evolution of poisonous gasses from a substance or the rapid expansion of gasses from a substance at a given temperature, or, most commonly, the temperature at which the sample begins to decompose.. Once these temperatures are ascertained by DSC then appropriate warning labels and safety data can accompany the substance as it is bought, sold and handled.

(E537, E-537, E 537)

ASTM Standard D5594, 2007, "Test Method for Thermal Stability of Chemicals by DSC," ASTM International, West Conshohocken, PA, 2007, DOI: 10.1520/E537-02, www.astm.org.

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