



ASTM E-1269

Determining Specific Heat Capacity by DSC

This test method covers the determination of specific heat capacity by differential scanning calorimetry. It is generally applicable to thermally stable solids and liquids. The normal operating range of the test is from room temperature to 500°C. It consists of heating the test material at a controlled rate in a controlled atmosphere through the region of interest. The difference in heat flow into the test material and a reference material or blank due to energy changes in the material is continually monitored and recorded.

DSC measurements provide a rapid, simple method for determining specific heat capacities of materials. Specific heat capacities are important for reactor and cooling system design purposes, quality control, and research and development.

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