

Thermal analysis

Description

Thermal analysis gathers two main analytical methods developed to evaluate the properties of your materials when the temperature changes. **Thermogravimetric analysis (TGA)** allows to precisely determine **changes in weight** of a sample **as a function of the temperature**. Its coupling with **Differential Thermal Analysis (SDTA)** allows the **simultaneous characterization of all the weight-independent phenomena (fusion, change in structure,...)**

This technique will allow you to know better your lubricants in terms of **high temperature life** and **oxidation resistance**. You will also be able to determine the **endothermic or exothermic reaction characteristics** of your systems.

Conditions

Analyzable Materials Organic or inorganic solids, powders, liquids

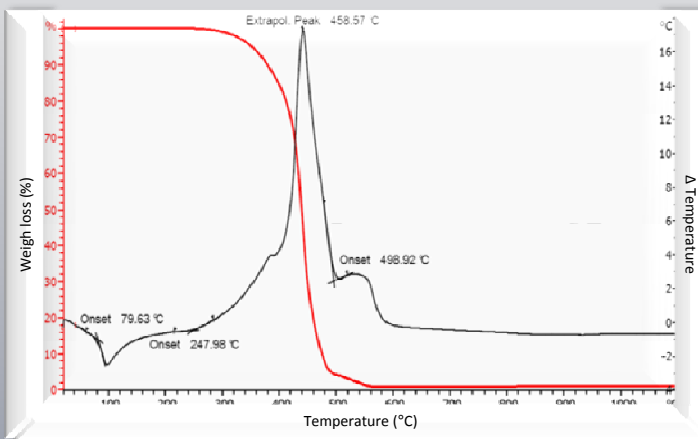
Temperature range 15 to 1600 °C

Heating rate 0,01 to 100 °C/min

Weighing device precision ± 1 µg

Atmosphere Air or Inert (nitrogen)

Results



- Thermographs
- Quantification
- Identification

InS
 Innovation
 Nanomaterials
 Strategy

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