

NETZSCH

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FREE SEMINAR

Thermal Analysis & Rheometry – Indispensable Tools for the Characterization of Pharmaceuticals

Thursday, November 23, 2023
in Ahmedabad



Our speakers:

Dr. Gabriele Kaiser (Division Manager
Life Sciences, NETZSCH-Gerätebau GmbH)

Dr. Markus Meyer (International Sales
Manager, NETZSCH-Gerätebau GmbH)

Venue:

**NIPER – National Institute of
Pharmaceutical Education &
Research, Ahmedabad**

Thermal analysis and rheometry are powerful and reliable techniques for preclinical research and development, thermal safety investigations as well as quality control.

From the determination of fundamental physicochemical properties to polymorphic studies to the determination of the compatibility between different components of a formulation, differential scanning calorimetry (DSC), is the most frequently used among these methods.

Thermal stability tests, on the other hand, are the strength of thermogravimetric analysis (TGA). This is the method of choice to analyze stoichiometric or non-stoichiometric hydrates and solvates or to find out if there are still residual solvents present in the solid. Coupled to a gas analyzing system (FT-IR, MS, GC-MS), it is even feasible to identify the gas species released during the observed mass-loss step(s). Such combinations belongs to Evolved Gas Analysis (EGA).

Kinetic analysis of TGA data using the NETZSCH Kinetics Neo software allows for predictions of the (also long-term) material.

PROGRAM

11.00 a.m.	Doors open & Registration
11.15 a.m.	Welcome and introduction to NETZSCH Analyzing & Testing
11.30 a.m.	What are the Benefits of Characterizing Pharmaceuticals by Means of Thermal Analysis and Rheometry? - A short overview
12.00 p.m.	Analyzing physicochemical properties – what does this mean?
12.30 p.m.	Determining the purity of materials
1.00 p.m.	<i>Lunch break</i>
1.45 p.m.	Testing and predicting the stability of pharmaceuticals
2.30 p.m.	Viscosity, an important characteristic – not only for liquids
3.15 p.m.	Identifying thermal hazards of chemicals
3.45 p.m.	<i>Coffee Break</i>
4.00 p.m.	Discussions and Questions
4.15 p.m.	<i>Goodbye</i>