KEP Technologies

AKTS Software

Advanced Kinetics

Thermokinetics, Thermal Safety,

Reaction Calorimetry, Migration Limits

setaram
KEP TECHNOLOGIES

What is AKTS software?

Designed by our long-term partner AKTS, Setaram uses their software ensuring a global solution for kinetic analysis, migration studies in packaging, and the determination of thermal safety.

AKTS software suite can be applied to the study of the thermal stability of substances, to the safety analysis of physical-chemical processes, and to the investigation of the safety and quality of packaged substances.

HIGHLIGHTS

Additional characteristics and behavior of materials

AKTS software provides a means of inferring additional characteristics and behavior of materials examined, based on conventional thermoanalytical measurements.

ACCURATE DETERMINATION

A key benefit of this software is the accurate determination of the thermal stability of products (shelf-life / transformation) for quantities, temperatures and time scales beyond those measured.

CRITICAL DATA INFORMATION

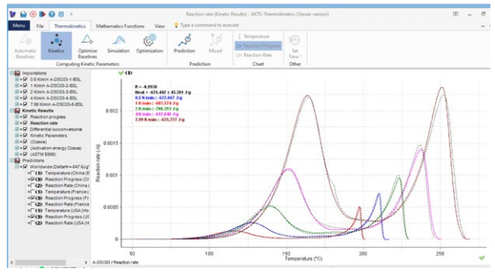
This provides critical data often difficult to obtain for reasons of time, cost and feasibility.

AKTS

AKTS TK

Thermokinetics

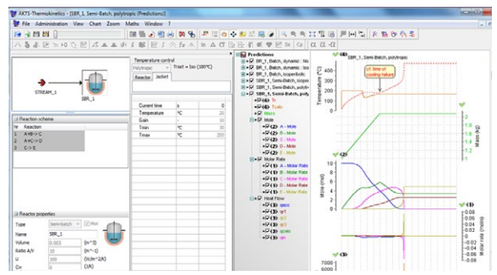
The main goal of AKTS-Thermokinetics Software Package is to facilitate kinetic analysis of DSC, DTA, TGA, EGA (TG-MS, TG-FTIR) data for the study of the thermal behavior of raw materials and products within the scope of research, development and quality assurance.



AKTS RC

Reaction calorimetry

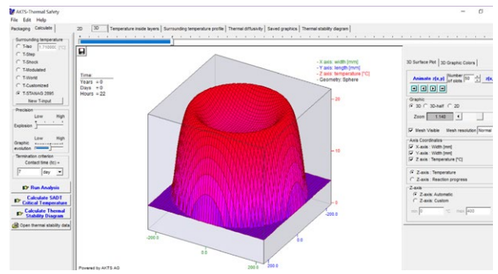
Chemical process safety knowledge is required, where processes are developed or performed. But many professionals do not have access to the appropriate expertise to interpret thermal data.
Therefore, AKTS has developed Reaction Calorimetry software dedicated to ‘synthesis’ or ‘desired’ reactions and techniques allowing them to be mastered at an industrial scale.



AKTS TS

Thermal safety

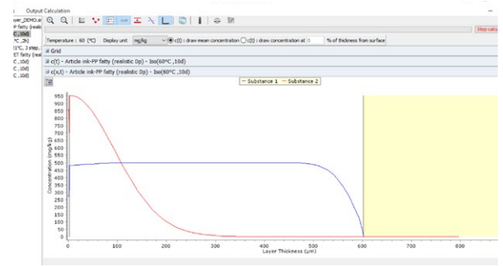
AKTS-Thermal Safety Software enables the prediction of the Time to Maximum Rate under adiabatic conditions (TMRad). Its calculation method extends applications to the thermal behavior under non-adiabatic conditions. It enables the prediction of the heat accumulation process and the reaction progress in containers during storage or transportation. Key applications include the chemical, pharmaceutical and food industries. Users focus on self-reactive chemicals, explosives and thermal hazards for dangerous goods.



AKTS SML

Specific migration limits

The program SML helps users check the compliance of food packaging. It applies recognized diffusion models introduced in European legislation (EU legislation Plastics Directive 2002/72/EC.).



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