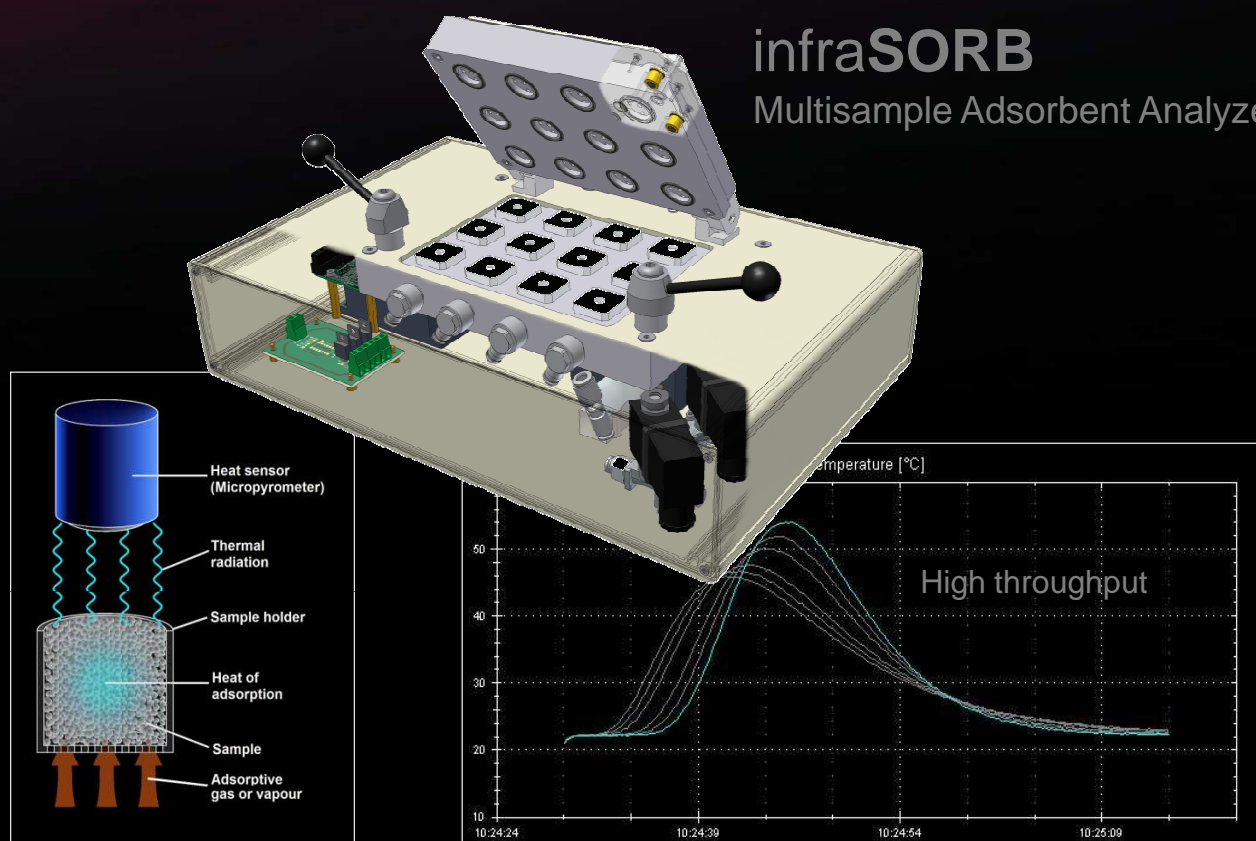


RUBOTHERM

infraSORB

Multisample Adsorbent Analyzer



The infraSORB measures parallel and independently the adsorption capacity of 12 samples. The heat of adsorption released after introducing the adsorptive gas leads to a temperature increase of the sample material. The temperature of each sample is continuously measured and recorded by radiation thermometers. The degree of temperature rise and the temperature profile are the indicators for the adsorption capacity.

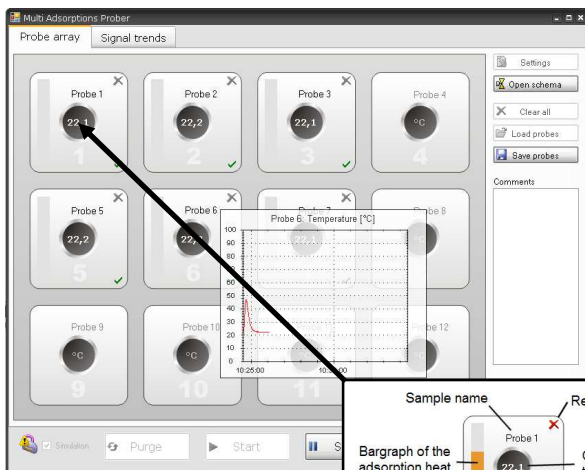
Evaluation of adsorption capacity

Fast and simple detection of porosity

Different adsorptive gases and vapours

External gas/vapour mixing station (option)

12 samples simultaneously



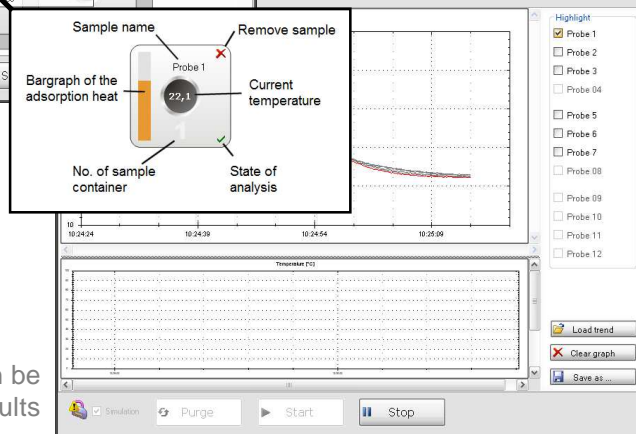
The infraSORB software controls the measurement and records the temperature profiles. The degree of temperature rise indicates the adsorption capacity.

The temperature profile of the measurement is characteristic for the kinetics of adsorption.

The software allows comparing the results of the actual samples straightforward at a glance. The sample with highest heat release is indicated automatically.

Alternatively the results can be compared with stored results of reference samples.

Thus, up to 12 unknown adsorbent material samples are characterized in respect to their adsorption capacity in one simple and automatic measurement.



RUBOTHERM

Your specialist for adsorption analysis

Rubotherm has accumulated the arguably broadest know-how about adsorption analysis methods and instruments among the international manufacturers. Rubotherm is the only supplier who offers the complete range of analytical instrumentation:

Volumetric instruments

Low or high pressure adsorption measurements with gases and vapours

Dynamic flow instruments

Catalyst characterization by chemisorption and physisorption measurements

Gravimetric instruments

Magnetic Suspension Balances for low and high pressure measurements with gases, vapours, corrosive and toxic substances

High throughput instruments

Multi-sample adsorbent material characterization at low and high pressures

Rubotherm instruments are applied internationally in industrial and university research laboratories, mainly for these applications:

Physisorption

BET, pore size distribution, gas storage applications, separation, purification, measurements with corrosive gases & vapours

Chemisorption

TPD-, TPO-, TPR-measurements, pulse adsorption, catalyst characterization

Thermogravimetry

High temperature reactivation, reaction, decomposition, gasification, corrosion testing

The infraSORB was developed in cooperation with the Fraunhofer Institute for Material and Beam Technology (IWS), Dresden (Germany). Patent pending.



Thermogravimetry
Specific surface area
Porosity
Chemisorption
Vapour adsorption
Sorption under extreme conditions

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