

TESTING SERVICE

TESTING THERMAL CONDUCTIVITY AND THERMAL EXPANSION



DESCRIPTION

The Thermometry Laboratory performs measurements in the areas of thermal conductivity, thermal diffusivity, determination of specific heat of materials, and thermal expansion of solids, powders, and selected liquids.

ADVANTAGES

- testing a wide range of materials, including ceramics, metals, polymers and composites;
- high precision and wide temperature range for conducted tests;
- possibility of obtaining higher-quality products in terms of thermal conductivity or thermal insulation;
- possibility of improving technological processes in the company that are affected by temperature changes.

INTENDED USE

- construction industry – testing insulators, concrete, aggregates, and structural metals;
- ceramics industry - measurements of thermal expansion and material shrinkage;
- energy industry – testing thermal insulation of power cables and district heating insulation;
- food industry – testing for vegetable and fruit processing plants, meat processing plants, dairy plants, and distilleries to assess parameters affecting the proper course of technological processes;
- chemical industry – measurements of polymer materials, composites, new liquid and solid materials, foams, powders, and coatings;
- pharmaceutical industry – measurements of parameters essential for the proper course of the drug manufacturing process



Świętokrzyskie
Laboratory
Campus

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