

InoTherm®

First-principle thermal conductivity coefficient measurements



Patent Pending

A solid sample parameters

A sample should be a disc with a minimum diameter of 7 mm. The sample faces should be plain. The measured thermal conductivity range and the sample thickness for better precision are shown in the table.

k, W/m·K	Error, %	Sample thickness, mm
0.05 ÷ 5	3	0.1 ÷ 1
10 ÷ 150	2	1 ÷ 10
200 ÷ 500	4	6 ÷ 12

The InoTherm measuring sequence

- Set a sample (1 minute)
- Start the experiment (the standard experiment duration is 6 min)
- Input the sample height and diameter (0.2 min)
- Calculate the thermal conductivity coefficient (1 second)

Master the measurements in one hour.

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