









# A straightforward solution. From solids to liquids.



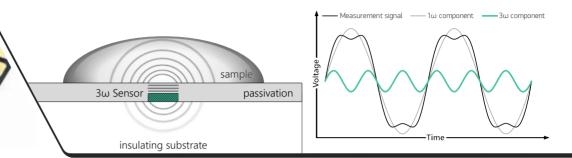
TOCS is a compact rapid characterization system for a wide range of samples from various material classes to obtain thermal conductivity and diffusivity within a few minutes.

#### Sample range

- Liquids and suspensions
- Gels, pastes and oils
- Filled greases
- Pads and soft materials

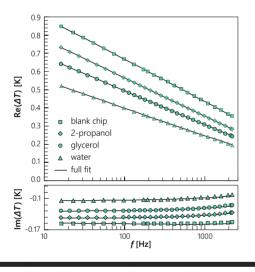
#### **System features**

- Compact benchtop system
- Re-usable test chips
- Removable sample holder
- Complete hard- and software solution
- Compatible with any other 3-omega measurement structure



### Thermal conductivity and diffusivity

The bi-directional model fit of the 3-omega method simultaneously yields thermal conductivity and diffusivity of the tested material. Thermal conductivity, in particular, is available within a minute.



- All-in-one software suite
- Very fast measurement with high reproducibility
- Curing and non-curing materials
- Measurement in application-specific environments
  - Vacuum or protective gas
  - Elevated temperatures
  - High atmospheric pressures



TOCS





thermal grease



liquid metal

thermal grease

## Your system, your rules

TOCS supports the use of any 3-omega-capable sensor structure plug-and-play. Out of the box. You don't have your own chips or sensors at hand?

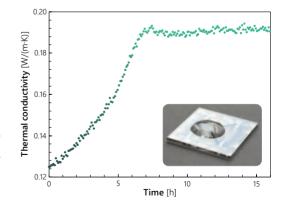
Do not dispair: We have the right one for you.

## Our chip

- Borosilicate glass chip
- $\square$  12 × 12 mm<sup>2</sup> size
- ☐ Three 3-omega sensor structures
- Two independent heaters
- Low-budget consumable

Curing and measuring in-situ yields thermal characteristics with high thermal and time resolution.

This example is a common epoxy curing at room temperature.



learn more

nanotest.eu/tocs



NANOTEST simply measured.

