



NANOTEST
Berliner Nanotest und Design GmbH

TΩCS[®]



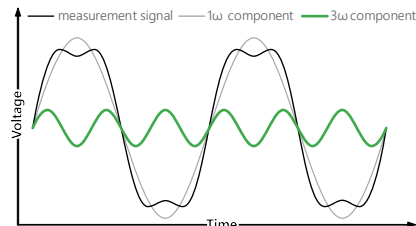
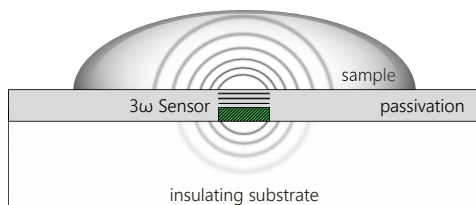
Three Omega Characterization System

**Thermal
conductivity
characterization
done within a minute**

A straightforward solution. From solids to liquids.

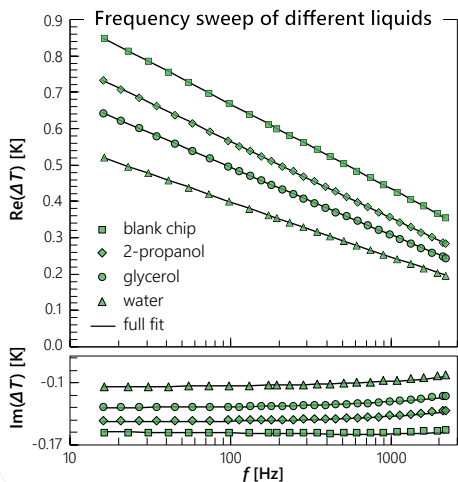
TOCS is a compact quick testing system for characterization of a wide range of various materials to obtain both, the thermal conductivity and diffusivity, within a few minutes.

- ▶ Liquids and suspensions
- ▶ Gels, pastes and filled greases
- ▶ Pads and soft materials
- ▶ Compact benchtop system
- ▶ Re-usable test chips
- ▶ External sample holder
- ▶ Complete hard- and software solution
- ▶ Compatible with any other 3-omega measurement structure

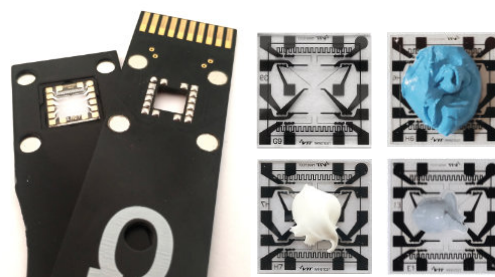


Thermal conductivity and diffusivity

The bi-directional model fit of 3-omega method simultaneously provides 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
- ▶ Easy sample application
- ▶ Curing and non-curing materials
- ▶ Measurement in application-specific environment:
 - ▶ Vacuum or protective gas
 - ▶ Elevated temperatures
 - ▶ High atmospheric pressure



Your system, your rules

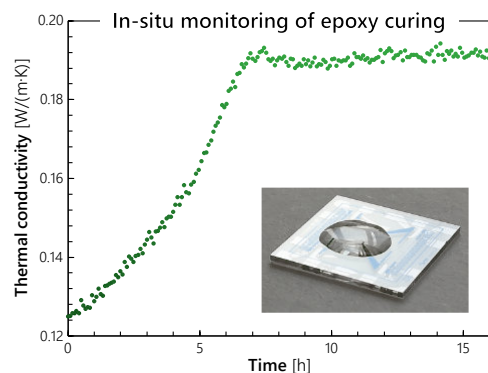
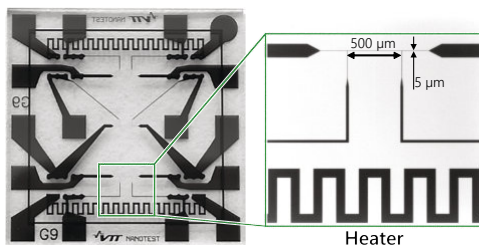
TOCS supports the use of any 3-omega structure as plug and play. Out of the box.

But if you don't have your own chips at hand, do not despair.

We have the right one for you.

Chip characteristics

- ▶ Borosilicate glass chips
- ▶ 12 x 12 mm² size
- ▶ Three 3-omega sensors
- ▶ Two independent heaters
- ▶ Low-budget consumable



nanotest.eu/tocs