Simultaneous Thermal Analysis

NETZSCH STA 449F3 Jupiter

Principle

Simultane Thermo-Analysis (STA) for the combined determination of differencial scanning calorimetry (DSC) and thermogravimetric (TG) analysis with static or cyclic temperature-time-regime.

Manufacturer	NETZSCH
Temperature Range	SiC furnace - *RT to 1550 °C* High speed furnace - *RT to 1250 °C*
Atmosphere	SiC furnace • *Vacuum* • *Inert (argon, nitrogen, helium)* • *Synthetic air* • *Reducing (varigon, forming gas)* High speed furnace • *Argon* • *Synthetic air*
DSC Resolution	< 1µW
TG Resolution	0.5 µg
Heating Rates	SiC furnace *-up to 50 K/min* High speed furnace *-up to 1000 K/min*
Samples	Powder, Slices *(diameter 4 mm, thickness < 1 mm)*
Configurations	DSC/TG, DTA/TG, TG
Optional coupling with	Mass spectrometer NETZSCH Aeolos QMS