

Simultaneous Thermal Analysis

NETZSCH STA 449C Jupiter

Principle

Simultane Thermo-Analysis (STA) for the combined determination of differential scanning calorimetry (DSC) analysis (melting points, polymorphy, phase diagrams, eutectic purity, crystallinity of substances, phase transitions (solid-solid; solid-liquid), glas transition, specific heat, cross linking, oxidation stability, decomposition) and thermogravimetric (TG) analysis (mass change, temperature resistance, oxidation and reduction behaviour, decomposition, corrosion, composition).

Manufacturer	NETZSCH
Temperature Range	RT to 1450 °C
Atmosphere	<ul style="list-style-type: none">• Vacuum• Inert (<i>argon, nitrogen, helium</i>)• Synthetic air• Reducing (<i>varigon, forming gas</i>)
DSC Resolution	< 1µW
TG Resolution	0.5 µg
Heating Rate	up to 50 K/min
Samples	Powder, slices (<i>diameter 4 mm, thickness < 1 mm</i>)
Configurations	DSC/TG, DTA/TG, TG
Optional coupling with	Mass spectrometer NETZSCH Aeolos QMS
