

Simultaneous Thermal Analysis

NETZSCH STA 409cell

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 1600 °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	2 µg
Heating Rate	up to 20 K/min
Samples	Powder, Slices (<i>diameter 4 mm, thickness < 1 mm</i>)
Configurations	DSC/TG, DTA/TG, TG
