

Simultaneous Thermal Analysis

NETZSCH STA 449F3 Jupiter with water steam generator

Principle

Simultaneous Thermo-Analysis (STA) for the combined determination of differential scanning calorimetry (DSC) and thermogravimetric (TG) analysis with moistened atmosphere.

Manufacturer	NETZSCH
Temperature Range	SiC furnace - RT to 1550 °C Water steam furnace - RT to 1250 °C
Atmosphere	SiC furnace <ul style="list-style-type: none">• Vacuum• Inert (argon, nitrogen, helium)• Synthetic air• Reducing (varigon, forming gas) Water steam furnace <ul style="list-style-type: none">• Moisturized Gases (argon, synthetic air, hydrogen, nitrogen)
DSC Resolution	< 1 μW
TG Resolution	0.5 μg
Heating Rate	SiC furnace - up to 50 K/min Water steam furnace - up to 10 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