

Thermogravimetric Analysis

- SDT Q600, is capable of performing both differential scanning calorimetry (DSC) and thermogravimetric analysis (TGA) at the same time.
- The SDT measures the heat flow and weight changes associated with transitions and reactions in materials over the temperature range ambient to 1500°C.
- Performing both DSC and TGA measurements at the same time for a sample on the same instrument offers greater productivity and removes experimental and sampling variables as factors in the analysis of data.



Technical details:

Furnace Type:	Horizontal, Bifilar Wound
Temperature Range:	Ambient to 1500 °C
Heating Rate - Ambient to 1000°C:	0.1 to 100°C/min
Heating Rate - Ambient to 1500°C:	0.1 to 25°C/min
Thermocouples:	Platinum/Platinum-Rhodium (Type R)
Furnace Cooling:	Forced Air (1500 to 50°C in < 30 min)
Sample Capacity:	200mg (350mg including sample holder)
Balance Design:	Dual Beam Horizontal
Balance Sensitivity:	0.1 µg
Calorimetric Accuracy / Precision:	+2% (based on metal standards)
DTA Sensitivity:	0.001°C
Vacuum:	to 7 Pa (0.05 ton)
Sample Pans:	Platinum: 40 µL, 110 µL Alumina: 40 µL, 90 µL