



TGA-A1200 Thermogravimetry Analysis

Features:

- Pressure, 4 Bar
- High Vacuum, 1×10^{-3} torr
- Up to 800°C
- Samples up to 20 g in mass
- corrosive gas atmospheres
- 5 gas inlets

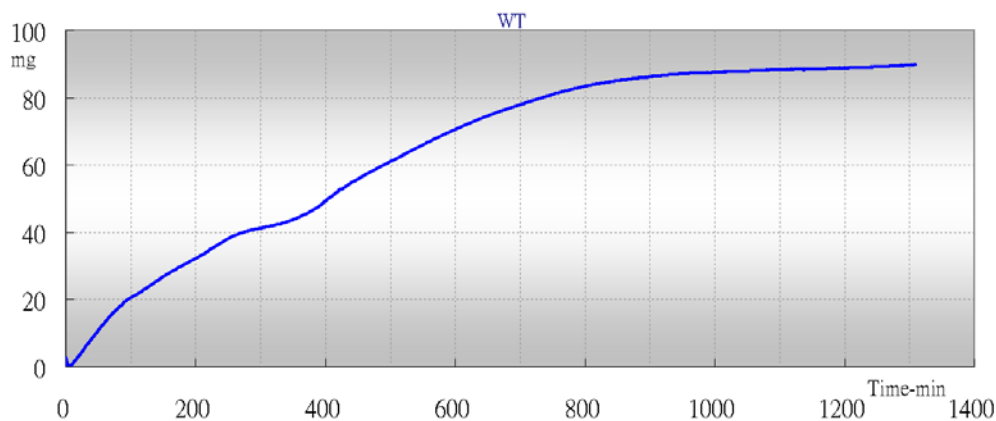
APPLICATIONS:

- Thermal stability
- Quantitative
- Pyrolysis
- Oxidation/Reduction
- Water and Volatiles
- Adsorption/Desorption
- Additive and Filler
- Kinetics
- Composition
- Estimated lifetime
- Oxidative stability



Description:

Thermogravimetric Analysis measures the amount and rate of change in the weight of a material as a function of temperature or time in a controlled atmosphere.





TGA-A1200 Thermogravimetry Analysis

Specification:

- Advance Instrument Inc. TGA-A Series instruments are specialty gravimetric analyzers designed to provide unique capabilities for Pressure, High Vacuum, and High-Temperature under static or dynamic reactive atmospheres.
- The TGA-A1200 is our standard system, employing a high-sensitivity balance in a robust design. The TGA-A1200 can accommodate samples up to 20 g in mass, with a sensitivity of 10 microgram. The TGA-A1200 is the instrument of choice for pressure studies (up to 4 Bar) at measurement temperatures up to 800°C, and can accommodate a variety of gas compositions under high-pressure static or optional dynamic flow. The standard vacuum accessory provides for measurement at reduced pressures down to 1×10^{-3} torr.
- When pressures or corrosive gas atmospheres are required, the TGA-A1200 is recommended. This top-of-the line model provides static pressures up to 4 Bar, and utilizes an advanced balance with a 20 g capacity. This allows the reaction chamber to be completely sealed, allowing for aggressive gas chemistry while isolating the microbalance assembly. The TGA-A1200 can be operated up to 750°C at the maximum pressure, and comes equipped with the standard vacuum accessory for low-vacuum studies.
- The TGA-A1200 is a specialized instrument designed for high temperature and pressure combinations. The maximum temperature of 1200°C is achieved safely in a unique double-wall reactor. The TGA-A1200 is equipped with a steam generator which makes it ideal for coal gasification studies, and includes 5 gas inlets for the maximum flexibility in dynamic reactive atmospheres.
- The rugged, reliable, TGA-A offers exceptional value as a compact, general-purpose thermogravimetric analyzer that typically outperforms competitive research-grade models. Its integral mass flow control, gas switching capability, superb software, and ease-of-use make the TGA-A ideal in basic research, teaching, or in industrial laboratories that need quality results.
- Temperature Compensated Thermo balance Included:
Maximum Sample Weight 20 g
Sensitivity 10 μ g
Furnace Heating Resistance Wound
Temperature Range Ambient to 900 °C
Isothermal Temp Accuracy +/- 2 °C
Isothermal Temp Precision +/- 0.5 °C
Controlled Heating Rate 0.1 to 20 °C/min
Furnace Cooling (forced Cooler Water)
900 to 50 °C <30 min
Temperature Calibration Curie Point
Software Included

