TGA-A1200 Thermogravimetry Analysis

Features:

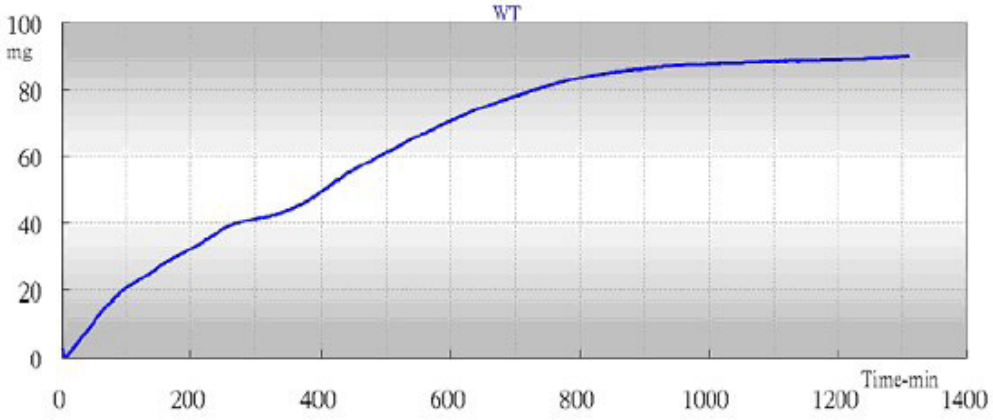
- Pressure, 4 Bar
- High Vacuum, 1 x 10-3 torr
- Up to 800°C
- Samples up to 20 g in mass
- corrosive gas atmospheres
- 5 gas inlets

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 are special gravimetric analyzers designed to provide with 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 good 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 x 10-3 torr.

- The TGA-A1200 is recommended for pressures or corrosive gas atmospheres are required. This top-of-the line model provides with 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 and also allows for aggressive gas chemistry while isolating the microbalance assembly. The TGA-A1200 can be operated up to 750°C at the maximum pressure, or equipped with the standard vacuum accessory for low-vacuum studies.

- The TGA-A1200 is a specialized instrument designed for both high temperature and pressure at the same time. The maximum temperature 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 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 a competitive research-grade model. 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 qualified results.

- Compensated Temperature Thermo balance Included:
  - Maximum Sample Weight: 20 g
  - Sensitivity: 10 µg
  - 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