INFRASTRUCTURE EN RECTIENCIA.
ET DÉVELOPPEMENT DU QUÉBEC

INFRASTRUCTURE EN RECHERCHE

MANUFACTURER: TA Instruments MODEL: Q500

Specifications

- Maximum sample weight: 1 g
- Weighing precision: $\pm 0.01\%$
- Sensitivity: 0.1 µg
- Baseline dynamic drift: <50 μg (50 to 1000°C at 20°C/min)
- Temperature range: ambient to 1000 °C
- Isothermal temperature accuracy: ± 1 °C
- Isothermal temperature precision: ± 0.1 °C
- Controlled heating rate: 0.01 to 100 °C/min
- Furnace cooling (force air/nitrogen): 1000 to 50 °C < 12 min
- Purge gas system with mass flow controllers
- Atmosphere: air, nitrogen
- Optional modes: Hi-Res TGA, Auto Stepwise TGA, modulated temperature TGA (MTGA)
- Optional gas analysis furnace (EGA) for characterization by TD-GC/MS of volatile organic compounds outgassed from various materials

Applications

- Measure changes in weight in relation to a temperature program in a controlled atmosphere



THERMOGRAVIMETRIC ANALYSIS (TGA)

MANUFACTURER: TA Instruments

MODEL: Q500

Example

TGA curve for a solder flux in an inert atmosphere

