



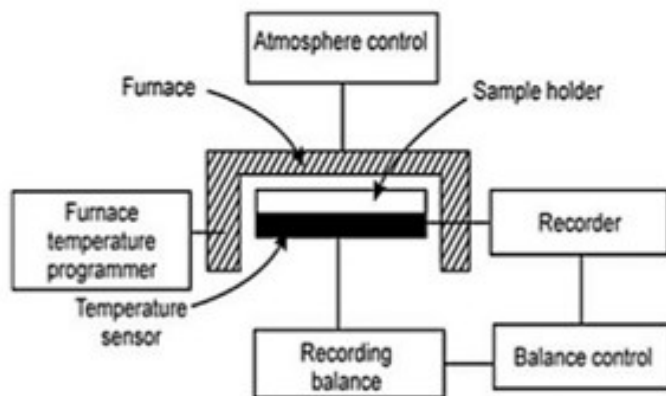
## Thermogravimetric Analyzer (TGA)

Thermogravimetric Analyzer (TGA) is used to characterize materials used in various environmental, food, pharmaceutical, and petrochemical applications.

It is a technique in which the mass of a substance is monitored as a function of temperature or time as the sample specimen is subjected to a controlled temperature program in a controlled atmosphere.

A TGA consists of a sample pan that is supported by a precision balance. The pan resides in a furnace. The temperature of the sample and the corresponding weight are taken while the furnace temperature is raised slowly during the experiment.

A sample purge gas controls the sample environment. This gas may be inert or a reactive gas that flows over the sample and exits through an exhaust.



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