



# Thermogravimetric analysis

AMOUNT AND RATE OF MASS CHANGE AS A FUNCTION OF TEMPERATURE OR TIME

## KEY WORDS

THERMAL STABILITY,  
THERMOGRAVIMETRY,  
COMPOSITIONAL  
ANALYSIS

## DESCRIPTION

Measurements are used primarily to determine the composition of materials and to predict their thermal stability at temperatures up to 1200°C. The technique can characterize materials that exhibit weight loss or gain due to decomposition, oxidation, or dehydration.

## AVAILABLE TECHNIQUES AND/OR EQUIPMENT

Standard Thermogravimetric Analysis (TGA), modulated (MTGA), and/or High Resolution (HiRes MTGA)

## APPLICATIONS

Thermal stability  
Compositional analysis  
Oxidative stability  
Quantification of volatiles/moisture  
Screening of additives  
Residue and filler content

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