# FT-IR

## Coupling to a Fourier Transform Infrared Spectrometer

#### **More than just the sum of its parts**

Especially in the polymer field as well as in the pharmaceutical and chemical industries, it can be very useful to have knowledge about the gases that evolve during a process, curing/cross-linking, decomposition or any other reaction.  
With the vacuum-tight thermal balances and simultaneous thermal analysis instruments [**TG 209 *F1* Libra®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/thermogravimetric-analysis/tg-209-f1-libra/), [**TG/STA 449 *F3* Jupiter®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/simultaneous-thermogravimetry-differential-scanning-calorimetry/sta-449-f3-jupiter/) and [**TG/STA 449 *F1* Jupiter®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/simultaneous-thermogravimetry-differential-scanning-calorimetry/sta-449-f1-jupiter/), [**TG/STA 449 *F5* Jupiter®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/simultaneous-thermogravimetry-differential-scanning-calorimetry/sta-449-f5-jupiter/), [**STA 2500 Regulus**](https://www.netzsch-thermal-analysis.com/en/products-solutions/simultaneous-thermogravimetry-differential-scanning-calorimetry/sta-2500-regulus/), [**DIL 402 *Expedis Select* & *Supreme***](https://www.netzsch-thermal-analysis.com/en/products-solutions/dilatometer/dil-402-expedis-select-supreme/), and [**TMA 402 F1/F3 Hyperion®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/thermomechanical-analysis/tma-402-f1f3-hyperion/), as well as with the dynamic differential calorimeters [**DSC 404 *F1* Pegasus®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/differential-scanning-calorimetry/dsc-404-f1-pegasus/) and [**DSC 204 *F1* Phoenix®**](https://www.netzsch-thermal-analysis.com/en/products-solutions/differential-scanning-calorimetry/dsc-204-f1-phoenix/), NETZSCH offers you efficient systems for coupling to a Fourier Transform Infrared Spectrometer (FT-IR). The transfer line and the connection adaptors to the furnaces can be heated up to 230°C to prevent condensation of the decomposition products to the greatest extent possible. For spectra interpretation, extensive gas phase libraries are available.