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Technical note

Fourier Transform Infrared Spectrometer (FT-IR)

Thermo Scientific Nicolet iS50 FT-IR Spectrometer with built-in Diamond ATR

FT-IR is an analytical technique used to identify mainly organic materials. Absorption spectra provide information about the chemical bonds and molecular structure of a material.

The FT-IR spectrum is equivalent to the “fingerprint” of the material and can be compared with FT-IR spectra in the library to identify a particular material.

Our system is equipped with Nic-Plan IR Microscope. It is a very powerful technique to characterize the chemical composition of minute sample such as fiber or oil residue. The testing method of FT-IR measurement can be non destructive, the sample can therefore be used for subsequent analytical testing as required.



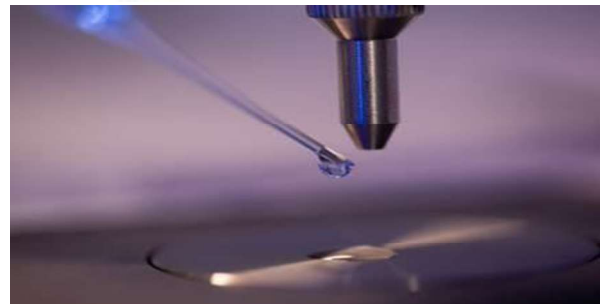
Key Features

- High sensitivity MGT-A Detector.
- Interchangeable accessories like VATR, Liq-Cell, ZnSe compression Cell.
- Nicolet Nic-Plan Microscope - For the analysis of minute amounts of contaminants.
- A few examples of common materials identified by FT-IR are: cleansers and detergents, paints, oils, paper, gel, glue, epoxy, resin, fibers (synthetic and natural), plastics and elastomers (rubber).

Services

ALS Pathumthani provides services for vast industrials such as data storage, semiconductor, electronics, automotive, polymer, telecommunications and Industrial products. Our FT-IR can generally be classified into two categories:

- Qualitative analysis - to identify the sample.
- Quantitative analysis - where the intensity of an absorption is related to the concentration of the component.



ABOUT ALS

With more than a decade of sophisticated testing experience, ALS Pathumthani has a diverse range of sampling, testing, and consulting services for the Electronics industry. We have dedicated technical staff to deliver reliable and timely analytical solutions for customer testing needs. We specialize in micro-contaminant and RoHS analysis, offering tailored analytical

packages that are specific to client requirements and needs. We are ready to deploy our world-class services to additional industries to support Thailand's industry growth. ALS provides the wide range of professional services for Electronics, Semi Conductor, Automotive and Telecommunication.

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