



FOURIER TRANSFORM INFRARED SPECTROMETER (FT-IR)

Thermo Scientific Nicolet NEXUS 470 FT -IR Spectrometer

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 samples such as fibers or oil residues. 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

FT-IR testing 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

We provide services for vast industries such as Data Storage, Semiconductor, Electronics, Automotive, Polymer, Telecommunications and Industrial Products

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