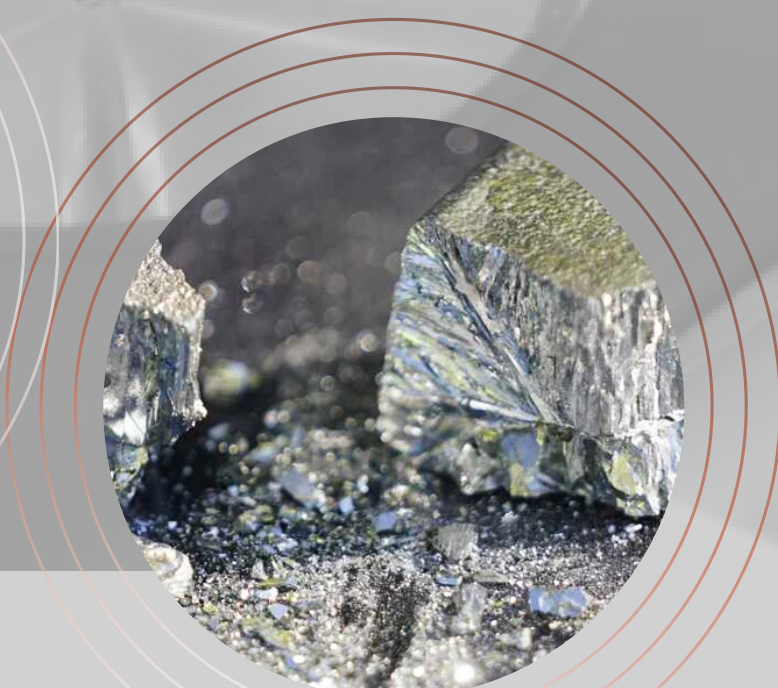


Available for Services

FTIR Spectrometer – DRIFTS

Thermo Scientific

Model: Nicolet™ iS50 FTIR Spectrometer



Chemical Engineering
Mahidol University

FTIR-DRIFTS (Diffuse Reflectance Infrared Fourier Transform Spectroscopy) measures diffusely reflected IR radiation from solid surfaces to obtain molecular and structural information. It is ideal for powders, porous, and rough materials without pellet preparation. The technique enables analysis of surface chemistry, adsorption behavior, and structural changes under controlled temperature or gas atmospheres, supporting applications in materials science, catalysis, and in-situ surface studies.

Capabilities :

- **Functional Groups:** Identification in powdered and porous solids.
- **Surface Chemistry:** Evaluation of surface chemical properties.
- **Structural Changes:** Monitoring under controlled conditions.
- **Rough Materials:** Analysis of catalysts, minerals, ceramics, and composites.
- **Pre/Post Treatment:** Comparison before and after calcination, coating, or chemical processing.

Service fees

Details	Students and staff within the university/ institute partners (MOU)	External personnel (government organization)	External personnel (private organization)
Diffuse Reflectance Infrared Fourier Transform Spectroscopy	600 THB/hr.	800 THB/hr.	1,000 THB/hr.

Contact Info



+66(0)2 889-2138 ext 6145

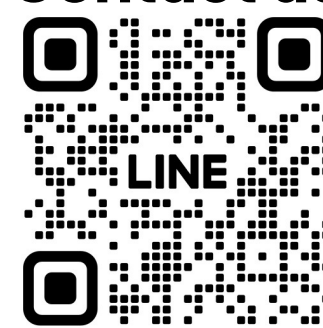


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