

FlexIR – NIR Fiber Optic Accessory for Fast and Remote Sample Identification



FEATURES OF THE FLEXIR

- Fast, easy identification of solids and liquid samples in situ
- 2 meter, low-OH fibers providing exceptional throughput and excellent spectral data with short analysis time
- Spectral range from 1.0 to 2.5 microns (10000 to 4000 cm^{-1})
- Integrated, high sensitivity InGaAs detector with electronics connection for your FTIR spectrometer
- Standard SMA connectors providing maximum flexibility with fiber probes
- Standard diffuse reflectance sampling tip with inert sapphire window for solid samples
- Optional transfectance sampling tip for liquid samples
- Compatible with most FTIR spectrometers configured for NIR operation

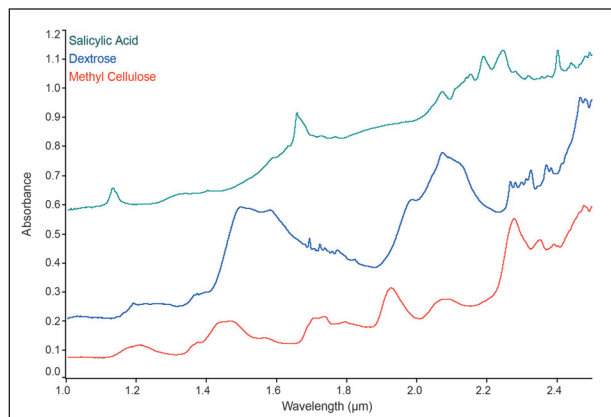
The PIKE FlexIR™ near-IR (NIR) Fiber Optic Accessory is an excellent tool for remote and speedy analysis of a wide variety of materials. Powders, plastics, coatings, and liquid samples are readily measured – typically within 30 seconds. The FlexIR accessory is ideal for performing incoming QC of materials used in pharmaceutical, polymer, and chemical manufacturing.

NIR sampling is fast and efficient as it eliminates the need for sample preparation. The FlexIR accessory further speeds the analysis since the probe tip is simply touched onto the sample, often in drums, and the spectrum is collected. Powdered samples packaged within a plastic bag can be analyzed without removal from the bag and this further speeds analysis time and eliminates analyst exposure to chemical materials.

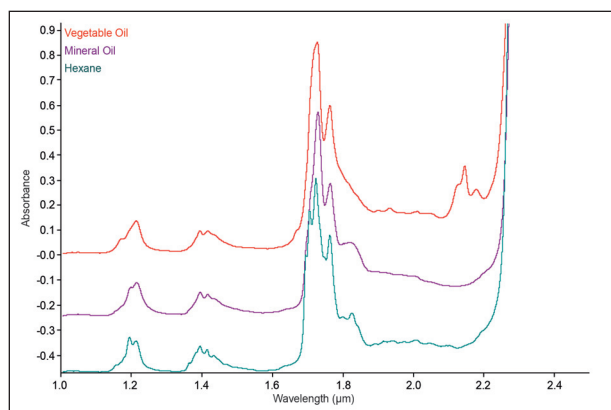
The PIKE Technologies FlexIR NIR Fiber Optic Accessory is designed for maximum throughput and performance. The fiber optic cable is directly coupled to the integrated indium gallium arsenide (InGaAs) detector – eliminating energy loss due to additional transfer optics and beam divergence.

With the optional Liquids Sampling Tip, it is easy to identify incoming liquids by inserting the wand tip into the liquid sample and collecting its spectrum.

The PIKE Technologies FlexIR NIR Fiber Optic Accessory is built and tested for optimum performance for your FTIR spectrometer.



Spectra of incoming pharmaceutical materials measured and verified with the FlexIR NIR Fiber Optic Accessory



Spectra of incoming liquid materials measured and verified with the FlexIR NIR Fiber Optic Accessory

ORDERING INFORMATION

FlexIR NIR Fiber Optic Accessory

PART NUMBER DESCRIPTION

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|----------|----------------------------------|
| 045-10XX | FlexIR NIR Fiber Optic Accessory |
|----------|----------------------------------|

Notes: The FlexIR is provided with base optics mounting for the sample compartment of your FTIR spectrometer and includes electronic cabling and diffuse reflectance probe. Your FTIR spectrometer must be configured with NIR beamsplitter and NIR source for optimum performance of the FlexIR accessory. Your FTIR spectrometer must be capable of interfacing with an external detector. Please see the FTIR code sheet for your instrument designation.

FlexIR NIR Fiber Optic Accessory, Sampling Options

PART NUMBER DESCRIPTION

| | |
|----------|----------------------------------------------------|
| 045-2001 | Liquids Sampling Tip for FlexIR, 1.0 mm pathlength |
| 045-2000 | Liquids Sampling Tip for FlexIR, 1.5 mm pathlength |
| 045-2002 | Liquids Sampling Tip for FlexIR, 2.0 mm pathlength |

Notes: The Liquids Sampling Tip is screw mounted and easily exchanged with the solids sampling tip on the FlexIR sampling wand.

Replacement Parts

PART NUMBER DESCRIPTION

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|----------|----------------------------------------------|
| 045-2010 | Diffuse Reflectance Tip for FlexIR NIR Probe |
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