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Gain clarity about your sample

Durable, high-performance diamond ATR

The Thermo Scientific™ Smart™ iTX ATR Accessory lets you get the most out of your Thermo Scientific™ Nicolet™ iS20 FTIR Spectrometer. A monolithic diamond ATR crystal and high-efficiency, all-reflective optics combine with a variety of interchangeable crystal plates to provide the robustness and flexibility to meet your material identification and verification needs:

- Verify pharmaceutical active ingredients and excipients
- Identify polymers, copolymers and additives in plastics and rubbers
- Inspect incoming raw materials
- Analyze volatile liquids

The Smart iTX optics maximize energy throughput, so you get high-quality spectral data in seconds. Robust, simple operation is assured by the dependable crystal mounting system and the Smart chip technology that integrates the Smart iTX accessory into your spectrometer.

- **Monolithic diamond crystal provides superior robustness**
- **Full spectral range yields more information about your sample**
- **Interchangeable crystals offer sampling versatility**
- **Automatic accessory recognition enables high productivity**

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Get more from your Nicolet iS20 FTIR spectrometer with the Smart iTX

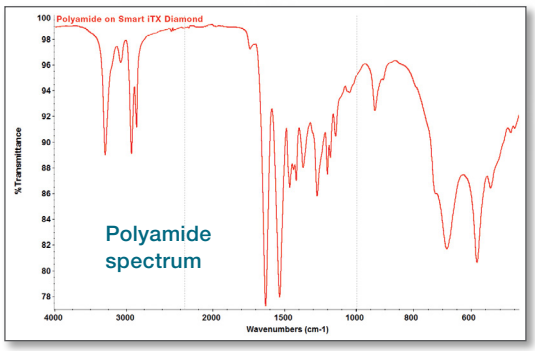
Configure your Smart iTX ATR accessory

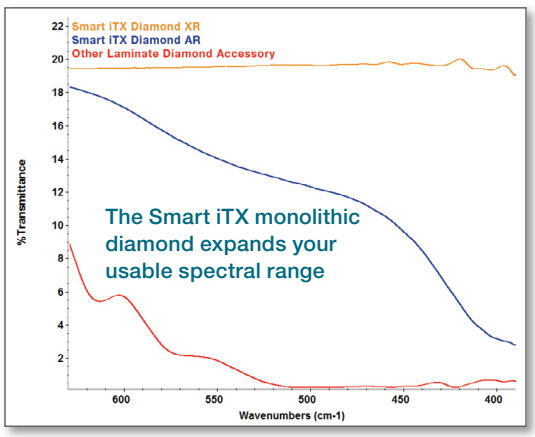
Choose the crystal type to fit your needs and budget:

- Diamond for liquids and all solids
- ZnSe for liquids and soft solids
- Germanium for highly absorbing materials like black rubbers

You get clean, high-quality spectra in less time across the entire mid-infrared and far-infrared† spectral range with the robust full-diamond crystal and efficient all-reflective optics. Use the germanium option for difficult samples like carbon-filled polymers, or the cost-effective zinc selenide (ZnSe) option if you analyze only liquids and soft solids.

† Far-infrared range requires XR Diamond and appropriately configured spectrometer.





Choose the configuration that best meets your needs:

Crystal Plate *(one required)*	Soft Materials	Hard Materials	Highly Absorbing	Part Number
Smart iTX AR Diamond*	Best	Best		869-168800
Smart iTX XR Diamond**	Best	Best		869-168900
Smart iTX ZnSe	Good			869-169000
Smart iTX Germanium	Good	Good	Best	869-169100

Accessory Base *(required)*	Part Number
Smart iTX Optics Module***	869-174400

Spare Parts	Part Number
Smart iTX Tip & Volatiles Cover Kit	869-169200

** AR-coated for higher throughput; Spectral range with KBr spectrometer optics: 7800–400 cm^{-1}*
*** Uncoated for wider spectral range; Spectral range with KBr spectrometer optics: 7800–350 cm^{-1}*
**** Includes Smart iTX Tips and Volatiles Cover*

Find out more at **thermofisher.com/iTX**

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