

**Material identification is a critical step in the quality control process that has tremendous impact on customer safety as well as speed — and cost — of production. With the Thermo Scientific TruDefender FT handheld FTIR analyzer, users can obtain reliable material identification in seconds.**

## Thermo Scientific TruDefender FT

Handheld FTIR for Material Verification



**The Thermo Scientific TruDefender FT analyzer** is a rugged, handheld FTIR analyzer designed for rapid, field-based and at-line analysis of materials in a variety of applications. Weighing only 2.9 pounds (1.3 kg), the TruDefender FT™ analyzer combines the proven precision of a benchtop FTIR spectrometer in a compact handheld device.

With the TruDefender FT analyzer there is no compromise between performance and portability. Sophisticated chemometric algorithms provide clear material identification for end-users in seconds and require no spectroscopy expertise. Built to military standards for ruggedness, the analyzer withstands the rigors of field-use and is ergonomically designed for easy operation in industrial and manufacturing settings.

### Key Benefits:

- Designed for demanding environments
- Easy to use
- No sample preparation required
- High quality data in seconds
- Clear, definitive results

### Applications Include:

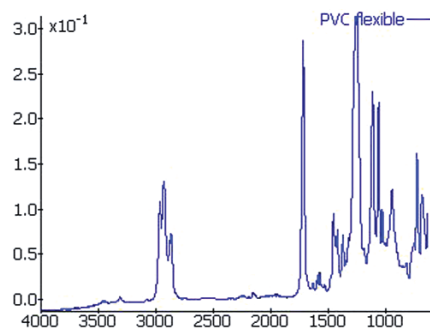
- Raw material verification (non-pharma)
- Field-based and at-line analysis of:
  - Films and coatings
  - O-rings
  - Phthalates
  - Plastics and polymers
  - Feed stock
  - Solvents and lubricants
  - Narcotics and customs inspection

## Product Specifications

Session003 : Scan008

Name	Weight
<b>PVC flexible</b> User added	96%
PVC rigid	1%

Potential mixture identified, 97% explained



Scan results

Name	Weight, 96% total
<b>Acetone</b> AKA: Propanone CAS: 67-64-1	54%
<b>Pseudoephedrine</b>	42%

Potential Mixture Identified

Session001 : Scan018

<b>2-Propanol</b> ITF-40, NIOSH, Pharma CAS: 67-63-0	<a href="#">View info</a> <a href="#">View spectrum</a> <a href="#">Export scan</a> <a href="#">Print scan</a> <a href="#">Explain result</a>
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1 match found

The TruDefender FT analyzer provides clear results which require no user interpretation. Each analysis automatically checks for the presence of mixtures.

High quality data and a straightforward interface enable onboard analysis or easy export for offline review.

## Thermo Scientific TruDefender FT

<b>Weight</b>	2.9 lbs (1.3 kg)
<b>Size</b>	7.7" x 4.4" x 2.1" (19.6 cm x 11.2 cm x 5.3 cm)
<b>Spectral Range</b>	4,000 cm <sup>-1</sup> to 650 cm <sup>-1</sup>
<b>Spectral Resolution</b>	4 cm <sup>-1</sup>
<b>Collection Optics</b>	ATR Diamond Crystal
<b>Data Export Formats</b>	SPC file (for use in standard spectroscopic software), text file, or JPEG report
<b>Battery</b>	Rechargeable internal lithium ion battery, OR SureFire™ disposable batteries; >2 hours operation
<b>External Power Supply</b>	Wall plug transformer 100–240 VAC 50/60 Hz

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