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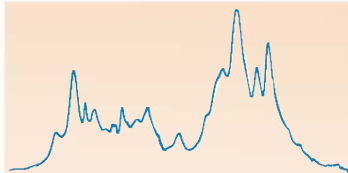
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Smiths Detection in conjunction with Aldrich Chemical Company and ST Japan have created a number of general purpose and industry specific spectral libraries consisting of over 25,000 high quality unique diamond attenuated total reflectance (ATR) spectra. Not only was each spectrum collected using Smiths Detection's patented diamond ATR technology, each spectrum was reviewed by a trained Spectroscopist to ensure spectral quality.

The Benefits of ATR Spectral Libraries

The simplicity of the diamond ATR technique makes it an ideal tool for rapidly identifying unknown materials. With its unscratchable surface, minimal sample preparation and corrosion resistance, diamond ATR has quickly become the method of choice for analyzing samples.

Until now FT-IR users have been forced to search unknowns against Transmittance Libraries, due to the fact that large ATR Search Libraries were not available. Although transmission libraries can be useful for identifying materials analyzed by ATR, the most reliable identification is obtained when using ATR libraries.

Comparing samples analyzed with ATR to ATR Spectral library databases is the most accurate method of library searching because of the analogous parameters by which the spectra were obtained. Results are not only more reliable but more beneficial when qualifying samples or identifying unknowns.

Transmission Users

Most Infrared Spectroscopy users that collect their spectra in either Transmission or Absorbance can obtain the benefits of ATR spectral libraries. Simply by collecting sample and utilizing the ATR correlation algorithm provided by their instrument manufacturer.

You can also have the benefit of these high quality spectra.

Available Formats

All libraries are distributed in formats compatible with most IR search packages, including Smiths Detection's QualID products and are available for use on systems running the following operating systems: Windows NT 4.0, Windows XP, Windows 2000.

-Nicolet
-Bruker

-Perkin-Elmer
-Advanced Chemical Design

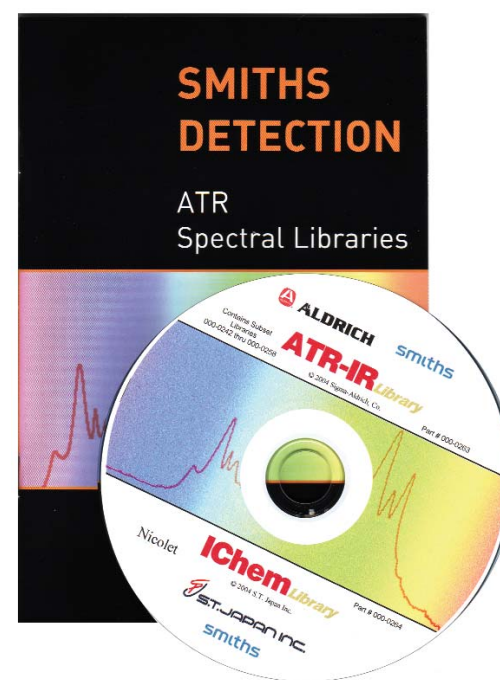
About Smiths Detection

Smiths Detection is recognized as a world leader in the development of innovative devices that simplify infrared analyses for real-world applications and the developer of diamond ATR sample interface solutions, making FT-IR analysis among the most user friendly and trusted analytical techniques available.

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Danbury, CT 06877

**THROW AWAY YOUR
BOOKS, OVER 25,000
SPECTRA ON ONE CD!**



SMITHS DETECTION ATR SPECTRAL LIBRARIES



**A COLLECTION OF HIGH QUALITY
Diamond ATR Spectral Databases**

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Educational

Aldehydes and Ketones ATR Library

The Aldehydes and Ketones ATR spectral search library of contains 1863 single reflection of various chemicals. Chemicals in this database are used in variety of professional area's including: Academia, Paint and Stain Manufacturing, Organic Synthesis and Environmental Analysis.

000-0N48

Alcohols and Phenols

The Alcohols and Phenols ATR spectral search library contains 2119 single reflection. This collection of spectra contains chemicals commonly used in a wide variety of industries and encompasses a broad base of chemical application studies.

000-0N49

Lactones and Anhydrides

The Esters, Lactones and Anhydrides ATR library contains 3193 single reflection Diamond of various chemicals.

000-0N50

Hydrocarbons

The Smiths Detection Hydrocarbons ATR library contains 897 single reflection of various chemicals.

000-0N51

Polymer and Polymer Additives

The Polymer and Polymer Additives ATR spectral search library contains 1563 single reflection of various chemicals commonly used in the Polymer and Polymer Characterization community.

000-0N43

Solvents

The Solvents library contains 610 single reflection of various commonly used solvents. These solvents can be found in variety of industries including Academia, Polymer Synthesis, Forensics and Hazardous Materials analysis.

000-0N46

Forensics

Forensics

The Forensics ATR library contains 1469 single reflection of various chemicals commonly used in the Forensic Science community.

000-0N55

Dyes, Pigments and Stains

The Dyes, Pigments and Stains ATR library contains 956 single reflection of various chemicals commonly used in the manufacture of Paints and Dyes. Additionally, this library is useful for the Forensic community for the analysis of Dyes and Paints.

000-0N56

Semiconductor Chemicals

The Semiconductor Chemicals ATR library contains 873 single reflection of various chemicals used in the Semiconductor industry

000-0N54

Hazardous and Toxic Chemicals

The Hazardous and Toxic Chemicals ATR library contains 6578 single reflection of various chemicals.

000-0N58

Biochemicals

The Biochemicals ATR library contains 4544 single reflection of various chemicals commonly used in the Biochemical can Biochemical Research community.

000-0N47

Food Additives and Food Packaging

The Food Additives and Food Packaging ATR library contains 1994 single reflection of various chemicals commonly used in the Food Additives and Food Packaging community.

000-0N44

Common Chemical

The Common Chemicals library contains 3301 single reflection of various organic and inorganic chemicals

000-0N02

Hazardous Chemicals

The Hazardous Chemicals ATR library contains 2516 single reflection of various chemicals. These chemicals are included in the EPA Cameo Database for Emergencies and the USCG CHRIS Hazardous Chemicals Database.

000-0N42

Solvents

The ATR Solvents library contains 610 single reflection of various commonly used solvents. These solvents can be found in variety of industries including Academia, Polymer Synthesis, Forensics and Hazardous Materials analysis.

000-0N46

Homeland Security

Pesticides

The Pesticides ATR library contains 920 single reflection of various Pesticides and Pesticide Precursor chemicals.

000-0N53

Forensics

The Forensics ATR library contains 1469 single reflection of various chemicals commonly used in the Forensic Science community.

000-0N55

Sulfur and Phosphorus Compounds

The Sulfur and Phosphorus Compounds ATR library contains 3985 single reflection of various chemicals.

000-0N57

Hazardous and Toxic Chemicals

The Hazardous and Toxic Chemicals ATR library contains 6578 single reflection of various chemicals.

000-0N58

Hazardous Chemicals

The Hazardous Chemicals ATR library contains 2516 single reflection of various chemicals. These chemicals are included in the EPA Cameo Database for Emergencies and the USCG CHRIS Hazardous Chemicals Database.

000-0N42

Common Chemical

The Common Chemicals library contains 3301 single reflection of various organic and inorganic chemicals.

000-0N02

Aldrich

The Smiths Detection Aldrich library contains 18000 spectra of various organic and inorganic compounds listed in the Sigma-Aldrich chemical catalog. All spectra for this library were obtained from 4000 – 650 cm⁻¹ using a Smith Detection TravelIRTM FT-IR spectrometer equipped with a diamond / zinc selenide DiCompTM internal reflection element.

000-0N33

Biochemicals

The Smiths Detection Biochemicals ATR library contains 4544 single of various chemicals commonly used in the Biochemical can Biochemical Research community.

000-0N47

Solvents

The Smiths Detection ATR Solvents library contains 610 single reflection of various commonly used solvents. These solvents can be found in variety of industries including Academia, Polymer Synthesis, Forensics and Hazardous Materials analysis.

000-0N46

Dyes, Pigments and Stains

The Smiths Detection Dyes, Pigments and Stains ATR library contains 956 single reflection of various chemicals commonly used in the manufacture of Paints and Dyes. Additionally, this library is useful for the Forensic community for the analysis of Dyes and Paints.

000-0N56

Aldrich-ICHEM

The Smiths Detection Aldrich-ICHEM package library contains 25470 single reflection of various organic and inorganic chemicals.

000-0N59

Pharmaceutical

Aldehydes and Ketones ATR Library

The Smiths Detection Aldehydes and Ketones ATR spectral search library of contains 1863 single reflection of various chemicals. Chemicals in this database are used in variety of professional area's including: Academia, Paint and Stain Manufacturing, Organic Synthesis and Environmental Analysis.

000-0N48

Alcohols and Phenols

The Smiths Detection Alcohols and Phenols ATR spectral search library contains 2119 single reflection. This collection of spectra contains chemicals commonly used in a wide variety of industries and encompasses a broad base of chemical application studies.

000-0N49

Lactones and Anhydrides

The Smiths Detection Esters, Lactones and Anhydrides ATR library contains 3193 single reflection of various chemicals.

000-0N50

Hydrocarbons

The Smiths Detection Hydrocarbons ATR library contains 897 single reflection of various chemicals.

000-0N51

Speciality

Flavor, Fragrances and Cosmetics

The Smiths Detection Flavor, Fragrances and Cosmetics ATR library contains 2211 single reflection of various chemicals used in these industries.

000-0N52

Semiconductor Chemicals

The Smiths Detection Semiconductor Chemicals ATR library contains 873 single reflection of various chemicals used in the Semiconductor industry.

000-0N54

Dyes, Pigments and Stains

The Smiths Detection Dyes, Pigments and Stains ATR library contains 956 single reflection of various chemicals commonly used in the manufacture of Paints and Dyes. Additionally, this library is useful for the Forensic community for the analysis of Dyes and Paints.

000-0N56

Polymer and Polymer Additives

The Smiths Detection Polymer and Polymer Additives ATR spectral search library contains 1563 single reflection of various chemicals commonly used in the Polymer and Polymer Characterization community.

000-0N43

Food Additives and Food Packaging

The Smiths Detection Food Additives and Food Packaging ATR library contains 1994 single reflection of various chemicals commonly used in the Food Additives and Food Packaging community.

000-0N44

Organometallics and Inorganics

The Smiths Detection Organometallics and Inorganics ATR spectral search library contains 815 single reflection of various chemicals used in the Paint Manufacturing and other industries.

000-0N45

Hazardous Chemicals

The Smiths Detection Hazardous Chemicals ATR library contains 2516 single reflection of various chemicals. These chemicals are included in the EPA Cameo Database for Emergencies and the USCG CHRIS Hazardous Chemicals Database.

000-0N42

Solvents

The Smiths Detection ATR Solvents library contains 610 single reflection of various commonly used solvents. These solvents can be found in variety of industries including Academia, Polymer Synthesis, Forensics and Hazardous Materials analysis.

000-0N46

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