

2025-2026

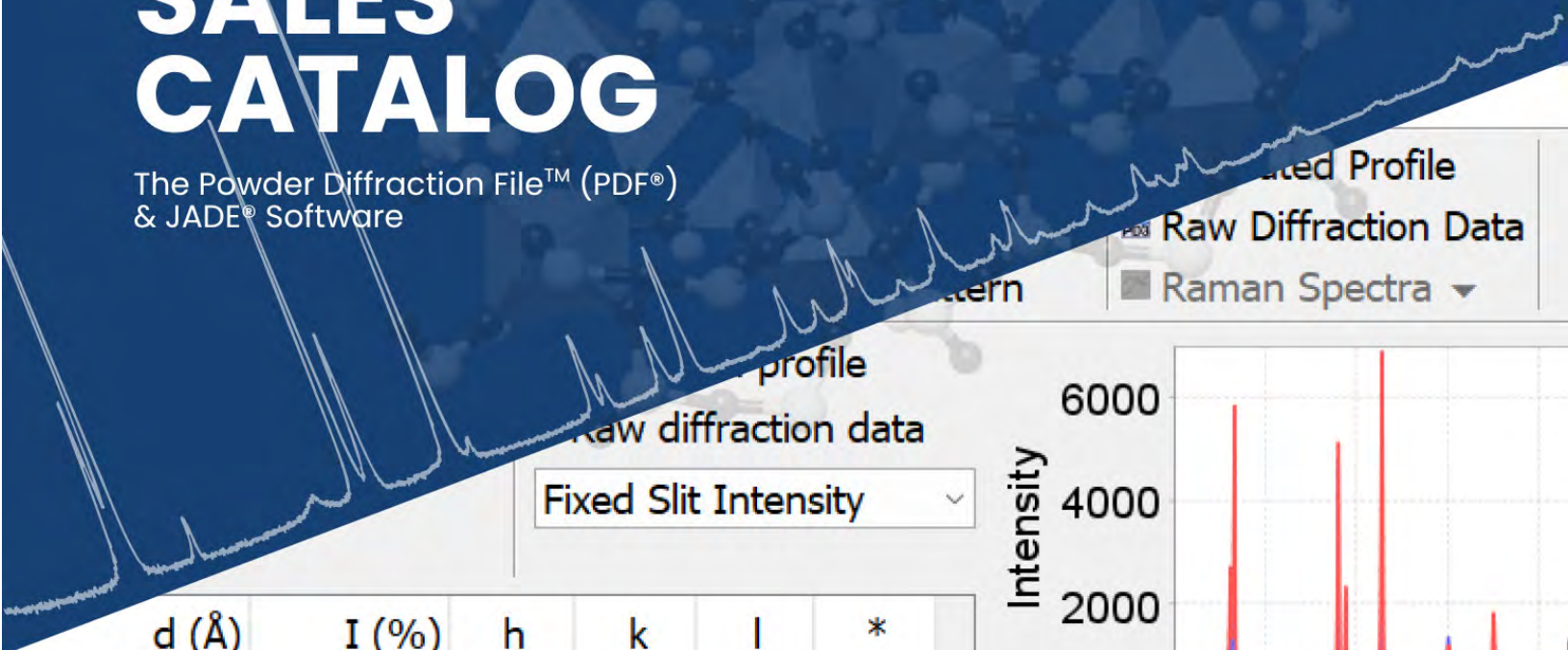
SALES
CATALOGThe Powder Diffraction File™ (PDF®)
& JADE® Software

PDF# 00-075-0477

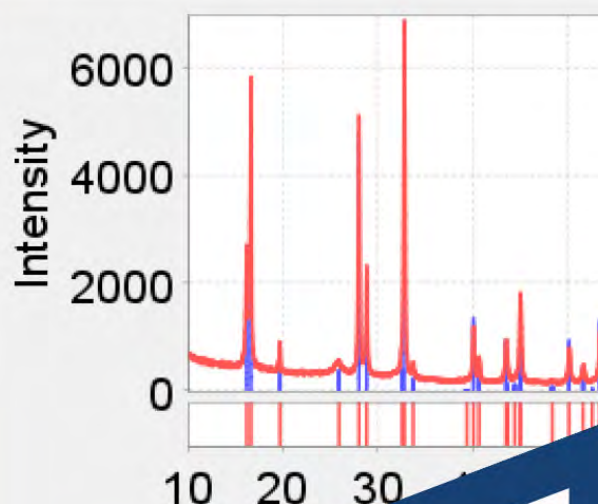
 $\text{Na}_{3.95}\text{V}_{1.95}\text{Nb}_{0.05}(\text{PO}_4)_2\text{O}_2\text{F}$

Sodium Vanadium Niobium Oxide Fluoride Phosphate

Wang, J., Yuan, Y., Rao, X., Yang, M., Wang, D., Zhang, A., Chen, Y., Li, Z., Zhao, H.



| d (Å) | I (%) | h | k | l | * |
|----------------|-----------|----------|----------|----------|---|
| 5.46363 | 33 | 1 | 0 | 1 | |
| 5.31790 | 73 | 0 | 0 | 2 | |
| 4.50293 | 8 | 1 | 1 | 0 | |
| 3.43646 | 6 | 1 | 1 | 2 | |



Status:

Primary

Quality Mark: ● Star

Environment:

Ambient

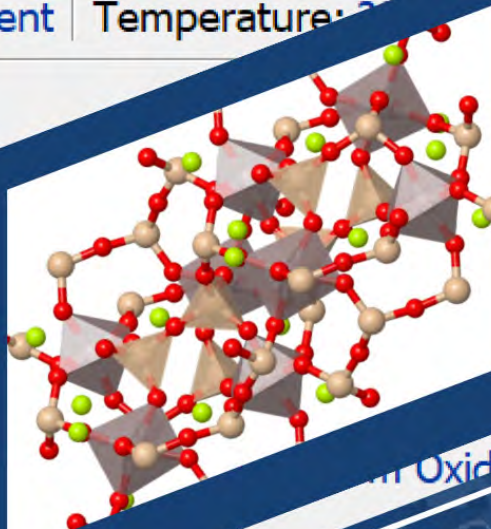
Temperature: 2

Phase:

-

Chemical Formula: $\text{Na}_{3.95}\text{V}_{1.95}\text{Nb}_{0.05}(\text{PO}_4)_2\text{O}_2\text{F}$

Empirical Formula:

ICDD®
INTERNATIONAL CENTRE FOR DIFFRACTION DATAM_DI
Materials Data™

Our collaborative partners include:

Cambridge Crystallographic Data Centre (CCDC) Cambridge, UK - Cambridge Structural Database (CSD)

FIZ Karlsruhe - Leibniz Institute for Information Infrastructure (FIZ)
Karlsruhe, Germany - Inorganic Crystal Structure Database (ICSD)

National Institute of Standards and Technology (NIST)
Gaithersburg, Maryland, USA

Material Phases Data System (MPDS)
Rome, Italy - Linus Pauling File (LPF)

PDF Databases - Why You Need The Best!

- More data, higher quality, more content, many types of solid-state reference data
- The world's largest solid-state collection of minerals, metals and alloys, polymers, active pharmaceuticals, and commercial materials
- The world's largest and most diverse (by formula) collection of inorganic structures
- The world's largest collection of modulated structures
- Extensive bibliographic collections - thousands of journals, hundreds of thousands of authors
- Standardized data, nomenclature, and structural classifications plus brand names, trade names, mineral names, zeolite names, and common names of commercial materials
- Identify materials accurately by utilizing the PDF's extensive subfile system that classifies materials by chemistry and application
- New data is contributed annually by highly qualified grantees from around the world
- PDF products are compatible with major diffraction vendor's software



Quality Management System Certified
to ISO 9001:2015 by DEKRA

THE INTERNATIONAL CENTRE FOR DIFFRACTION DATA (ICDD®)

is a non-profit scientific organization dedicated to collecting, editing, publishing, and distributing powder diffraction data for the identification of materials. The membership of the ICDD consists of worldwide representation from academe, government, and industry.

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ONLINE RESOURCES

Visit www.icdd.com. Learn from reference articles, technical bulletins, tutorials, and webinars. Some tutorials and webinars focus on the capabilities of the PDF database, while others illustrate methods used to analyze pharmaceuticals, polymers, and minerals. It is free to search and browse documents from ICDD's Pharmaceutical Powder X-ray Diffraction Symposium (PPXRD) and the ICDD Spring Meetings. You get open access to over 1,000 full publications from *Advances in X-ray Analysis (AXA)* - the proceedings of the Denver X-ray Conference® (DXC). Try the Powder Diffraction File (PDF) Search and search using chemical name, formula, and elements to suggest which ICDD database product is right for you.



INTERNATIONAL CENTRE FOR DIFFRACTION DATA



THE POWDER DIFFRACTON FILE IS AVAILABLE FOR **DOWNLOAD!**

GET YOUR 2026 PDF DATABASE BY
DOWNLOADING FROM THE CLOUD

BENEFIT FROM NO SHIPPING COST
AND REDUCED DELIVERY TIME!



PDF-5+



PDF-2



PDF-4/MINERALS



PDF-4/AXIOM



LICENSE OPTIONS TO FIT YOUR BUDGET!

- Extended multi-year license terms - Let us know what you need!
- Customized license for a 1 to 9-year license term
- 15% discount for new PDF-5+ and JADE Pro Bundles
- One-stop shopping: align PDF and JADE renewals for one billing and shipment
- PDF-2 10-year license - prepaid package
- PDF-5+Scholar - 10-year license for Academics
- PDF-4/Axiom 6-year and 9-year license - prepaid packages
- **SAVE time and money with ICDD's PDF-5+ and PDF-4/Minerals Subscriptions**
 - ICDD's subscriptions keep your database up-to-date with renewal pricing
 - ICDD offers automatic PDF-5+ and PDF-4/Minerals renewal shipments/download renewals for convenience
 - Can't accept automatic shipments? ICDD will send a PDF-5+ or PDF-4/Minerals renewal reminder to keep you up-to-date with your subscription

Contact info@icdd.com for more information.

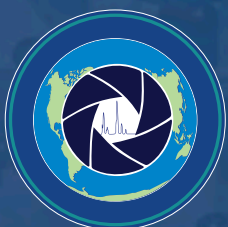
WHAT'S NEW FOR 2025-2026



PDF-5+
The Powder Diffraction Standard



PDF-5+ Server Edition
Extend the Power of Your Database –
Built for Teams of Five or More



PDF-4/Axiom
Quality plus Value



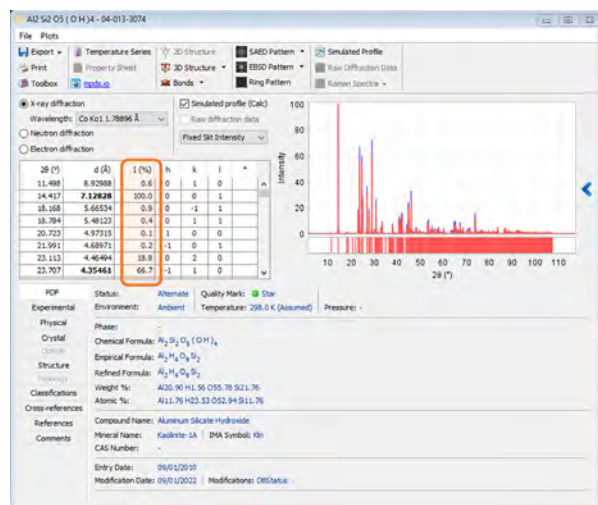
PDF-4/Minerals
Comprehensive Mineral Collection



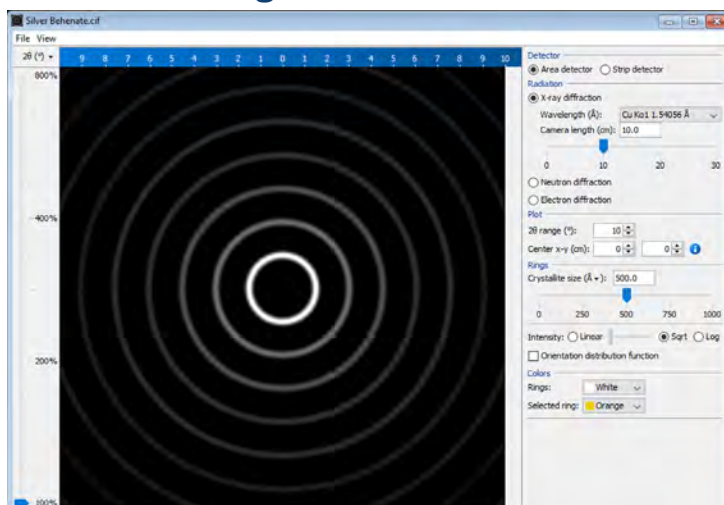
PDF-2
Phase Identification + Value

Introducing Release 2026 of the Powder Diffraction File

Calculated Intensities Scaled to 100%



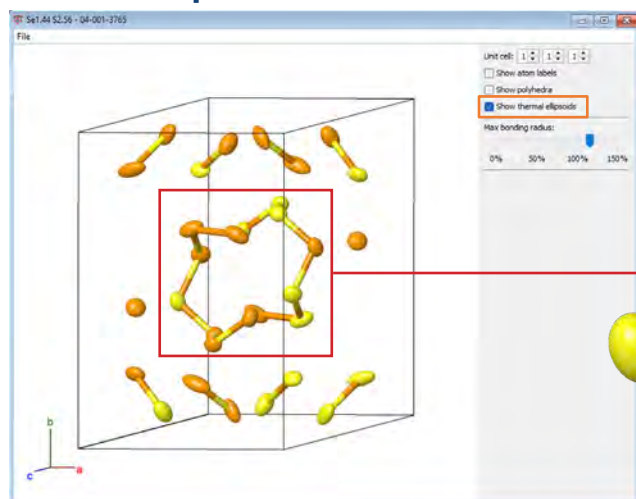
Simulate 2D Ring Patterns from CIFs*



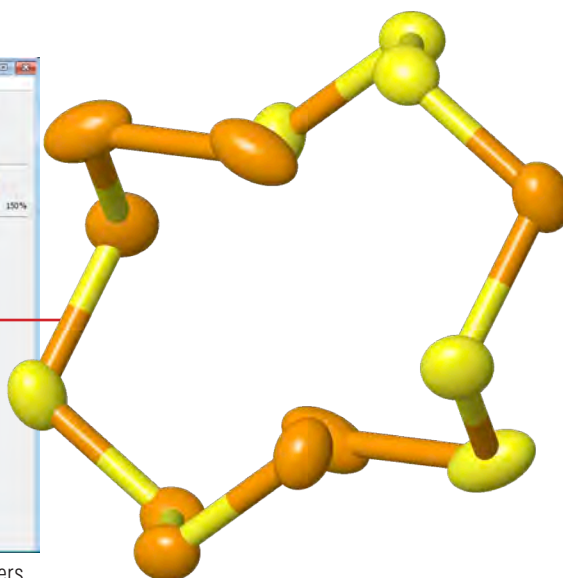
- For historical reasons, intensities for calculated diffraction patterns were scaled to 1000 using integers
- Now intensities are scaled to 100% using floating-point numbers

In addition to simulating 2D ring patterns from PDF entries, 2D ring patterns can now be simulated from a user imported Crystal Structure *.cif file.

Thermal Ellipsoids*

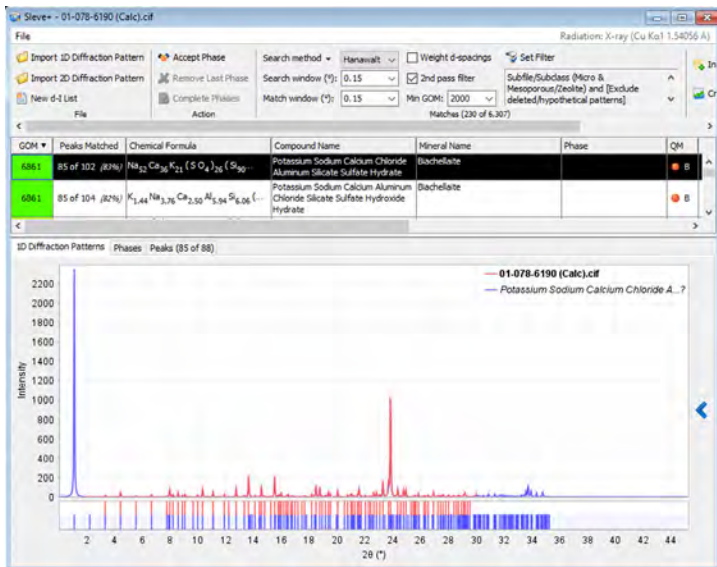


For PDF entries that have anisotropic thermal displacement parameters, thermal ellipsoids can be displayed in the 3D structure viewer.

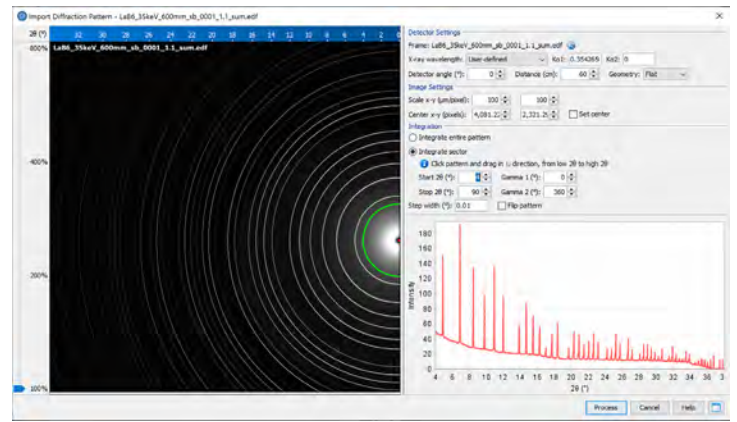


* PDF-5+/PDF-4 only feature

New Sleeve+ Features



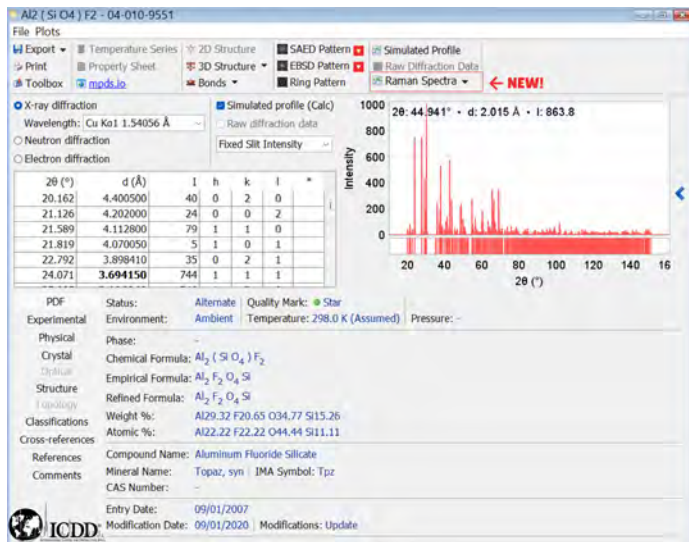
- Combine the search history with common filters
- Deep Search option
 - When selected, the current search will use all the permutations of 8 strongest search peaks to 3 strongest database peaks (instead of just the strongest database peak)
- New X-axis range option
 - Full Range
 - Restrict Range (to experimental data)
- Hide phase plots using checkboxes*



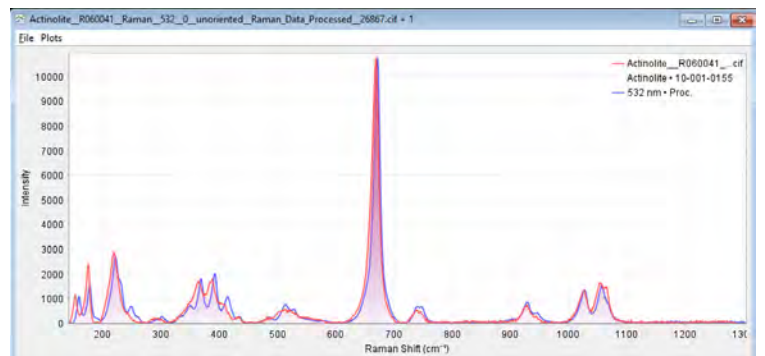
- Import 2D diffraction patterns from ESRF files (*.edf)*
- Simplified sector integration with 2D diffraction patterns*

Raman Database

With the increasing interest in identifying minerals using Raman spectroscopy, it is time for a unified effort to publish a curated Raman database. The International Centre for Diffraction Data (ICDD), with over 8 decades of experience with reference database science and an extensive history with the minerals community, is uniquely suited to this task. Raman data is available in PDF-5+ 2026, PDF-4/Minerals 2026, and PDF-4/Axiom 2026.



New Raman Features



- Raman Analysis Graph*
 - The user can import Raman spectra from a file and add Raman spectra from the PDF database into a graph for visual analysis
- Raman-Diffraction Search*
 - An option has been added to the Raman search that will only include Raman entries that are cross-referenced to X-ray diffraction data
- New Raman Display Fields*
 - Literature reference
 - Database comments

* PDF-5+/PDF-4 only feature

PDF-5+ 2026

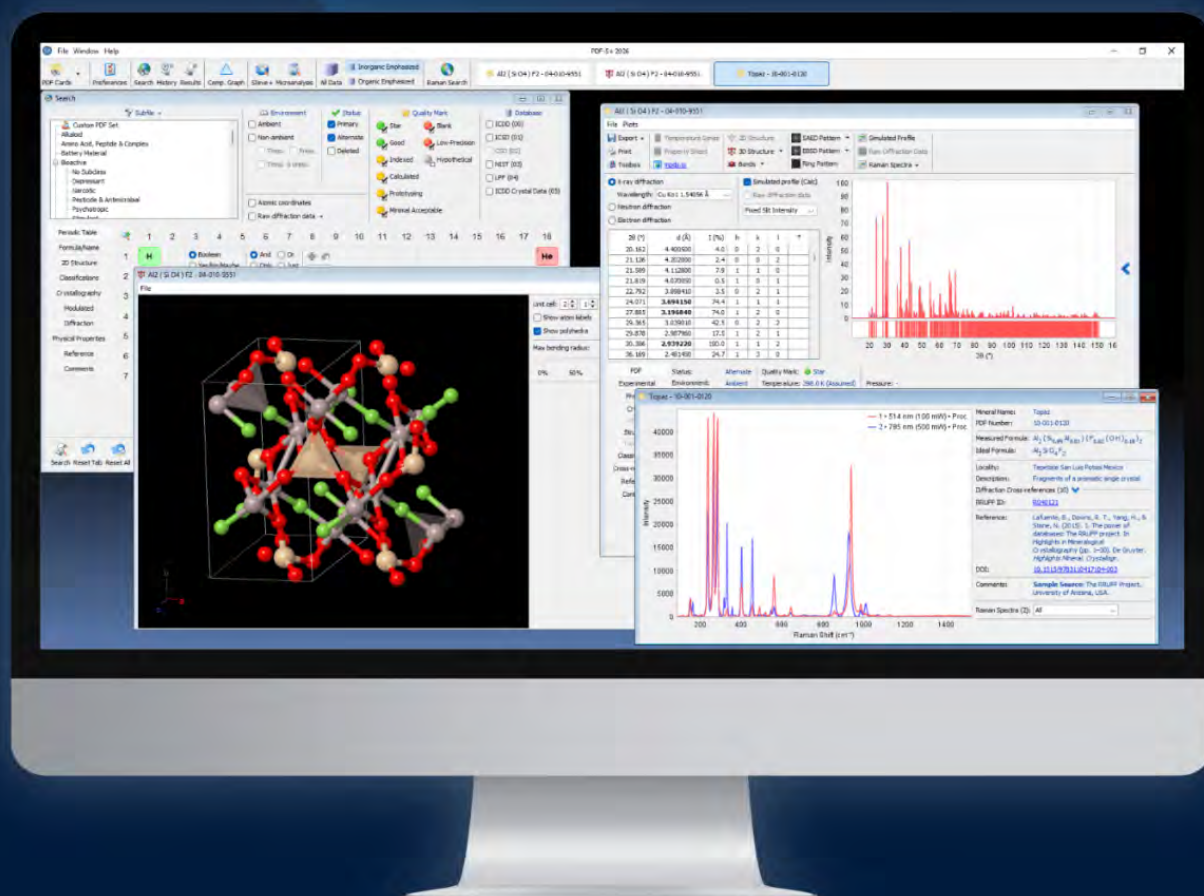
THE POWDER DIFFRACTION STANDARD

Inorganic & Organic entries are now combined into one powerful database with 1,126,200+ entries.

www.icdd.com/pdf-5



- 651,200+ entries with atomic coordinates
- Features 472,300+ entries for inorganic materials and 657,700+ entries for organic materials
- All entries have digital patterns for use in total pattern analysis
- 1,022,600+ entries have I/I_c values for quantitative analysis by Reference Intensity Ratio
- All entries are stored in a standardized format for easy search and interpretation
- All entries go through a rigorous editorial process to ensure quality

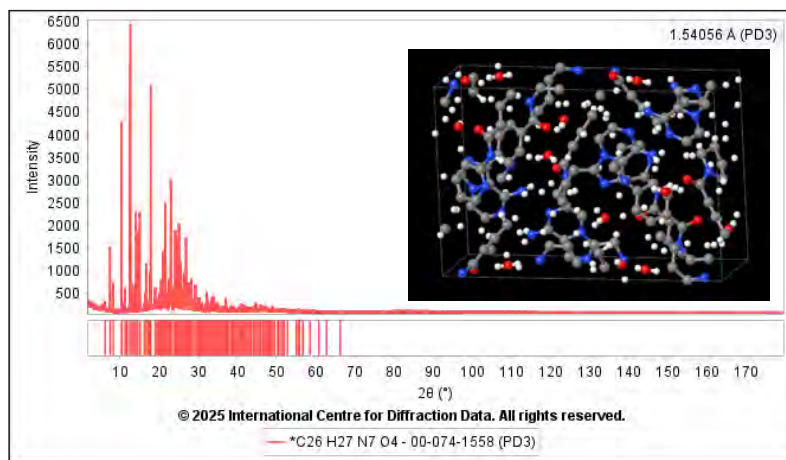




PDF-5+ 2026

The Powder Diffraction Standard

PDF-5+ combines the world's largest sources of inorganic and organic diffraction data from crystals and powders into a single database.



Calquence®, acalabutinib dihydrate Form III, used to treat various types of non-Hodgkin lymphoma.

KEY POINTS

- Rapid phase identification designed to support automated quantitative analyses
- Features 1,126,200+ entries with over 651,200+ having atomic coordinates
 - > 472,300+ entries for inorganic materials
 - > 657,700+ entries for organic materials
- Integrated data mining software
- All entries have digital patterns for use in total pattern analysis
- More than 1,022,600+ entries have I/I_c values for quantitative analysis by Reference Intensity Ratio (RIR) method
- Combines powder and single crystal data
- Includes crystalline, semi-crystalline, and amorphous solid-state materials
- World's largest and most diverse collection of structures for inorganic and organic materials
- Extensive data mining is facilitated with 118 display fields coupled with 85 searches
- LPF entries have a link to mpds.io
- One (1) year license serviced by subscription

PDF-5+ Purchase Options

| PDF-5+ 2026 | USB CODE | DOWNLOAD CODE | 2025-2026 LIST \$ | 2025-2026 ACADEMIC \$ |
|---------------------------|----------|---------------|-------------------|-----------------------|
| New - Single License | P5S26 | P5L26 | \$9,395 | \$6,265 |
| Renewal from 2025 to 2026 | P5RS26 | P5RL26 | \$2,115 | \$1,375 |

PDF-5+ and JADE Pro bundle*

| | | | | |
|---|-----------|-----------|----------|----------|
| New - Single License | BUJPP5S26 | BUJPP5L26 | \$16,310 | \$11,465 |
| *Purchase a new license for PDF-5+ and JADE Pro | | | | |

PDF-5+ 2026 Multi-year License*

| | | | | |
|--------------------------|-----------|-----------|---------|---------|
| Renewal - 3 year License | P5S27MR29 | P5L27MR29 | \$5,710 | \$3,715 |
| Renewal - 5 year License | P5S27MR31 | P5L27MR31 | \$8,990 | \$5,845 |

PDF-5+ Scholar 2026 (10-Year License Package)*

| | | | | |
|-----------------------------|-------------|-------------|----|----------|
| PDF-5+ New - Single License | P5S26 | P5L26 | | \$6,265 |
| Scholar Multi-year | P5SPS27MR31 | P5SPL27MR31 | NA | \$5,845 |
| | | | | \$12,110 |

Save Money! Take advantage of ICDD's Site License - Request a quote today!

| PDF-5+ 2026 Site License* | USB CODE | DOWNLOAD CODE | 2025-2026 LIST \$ | 2025-2026 ACADEMIC \$ |
|------------------------------------|----------|---------------|-------------------|-----------------------|
| New - Master License | P5S26M | P5L26M | \$9,395 | \$6,265 |
| New - additional License, each | P5S26C | P5L26C | \$2,115 | \$1,375 |
| Renewal - Yearly Master License | P5RS26M | P5RL26M | \$2,115 | \$1,375 |
| Renewal - additional License, each | P5RS26C | P5RL26C | \$855 | \$590 |

PDF-5+ 2026 Site/Multi-year License*

| | | | | |
|--|------------|------------|---------|---------|
| Renewal - 3 year Master Site License | P5S27MR29M | P5L27MR29M | \$5,710 | \$3,715 |
| Renewal - 3 year additional Site License, each | P5S27MR29C | P5L27MR29C | \$2,565 | \$1,770 |
| Renewal - 5 year Master Site License | P5S27MR31M | P5L27MR31M | \$8,990 | \$5,845 |
| Renewal - 5 year additional License, each | P5S27MR31C | P5L27MR31C | \$4,275 | \$2,950 |

PDF-2 to PDF-5+ Conversion

| | | | | |
|---------------------------|------------|------------|---------|---------|
| PDF-2 2025 to PDF-5+ 2026 | P2525RSU26 | P2525RLU26 | \$2,115 | \$1,375 |
| PDF-2 2024 to PDF-5+ 2026 | P2524RSU26 | P2524RLU26 | \$4,230 | \$2,750 |
| PDF-2 2023 to PDF-5+ 2026 | P2523RSU26 | P2523RLU26 | \$6,345 | \$4,125 |
| PDF-2 2022 to PDF-5+ 2026 | P2522RSU26 | P2522RLU26 | \$8,460 | \$5,500 |

*Please see product policies on pages 18 and 19



PDF-5+ SERVER EDITION

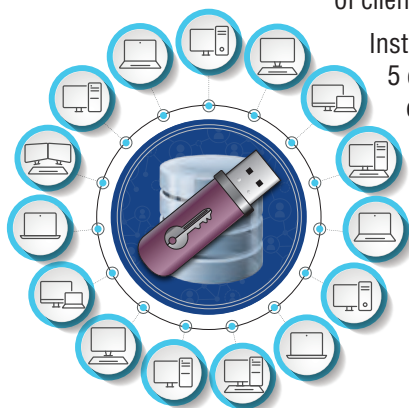
The Network Shareable PDF

Extend the Power of Your Database Built for Teams of Five or More

Workplaces and work habits have evolved from just a few years ago, and this database licensing model provides the flexibility that large organizations and academics need to meet the varying demands of clients, teams, and students.

Install on your server and as many computers as you wish. A 5-User license provides access to 5 computers at a time and floats among an unlimited number of systems. The Server license can be expanded to 10, 15, or more users. Deployment to new hires is seamless. When it's time for the latest database, your renewal is simplified with one single product. Ensure everyone in your organization is using the latest set of data with one shared floating 5 or more seat license. Additional benefits occur when access is granted to occasional use individuals without any added cost to your bottom line.

Your IT department will be happy as updates are streamlined, all while offering savings for your budget. If you need to provide access to 5 or more systems, please contact us at sales@icdd.com to consider how our new Server License would work best for your team.



PDF-5+ 2026

The Powder Diffraction Standard

PDF-5+ combines the world's largest sources of inorganic and organic diffraction data from crystals and powders into a single database.

PDF-5+ contains 472,300+ inorganic and 657,700+ organic entries to ensure that you have the data you need for all of your phase identification needs. Every entry is editorially reviewed and assigned quality marks, so the curated PDF-5+ database allows users to do quantitative analysis by any of three methods: Rietveld Analysis, Reference Intensity Ratio (RIR) method, or Whole Pattern Fitting.



Include JADE Pro Analysis Software on Your Server Edition

JADE Pro

The Analysis Software Professionals Choose

You need data you can trust, AND you need to find the best way possible to analyze your data. Extend the power of your ICDD PDF-5+ Server Edition by including the highly regarded data analysis software JADE Pro. We created JADE to provide independent, unbiased results for peak search, whole pattern fitting, and Rietveld. JADE gets daily improvements and has grown to include an enormous list of valuable tools for your materials research and exploration.

The power of JADE combined with the PDF-5+ Server Edition means a team can easily share a 5-seat license. The Server Edition can result in cost savings for your organization and a chance for you to extend the power to your team by providing access to BOTH the PDF database and JADE to as many individuals as you need. The database and software products offer the same functionality as the individual products. In coupling them in a 5 or more user server license, important resources are available to more team members, and everyone is in sync, all while reducing costs.

KEY POINTS

- All-inclusive - Everything in JADE Standard and so much more
- Phase ID (Search/Match)
- Batch processing Whole Pattern Fitting (WPF) and Rietveld
- One-Click-Analysis™ for Whole Pattern Fitting (WPF)
- Pattern Indexing (All Crystal Systems)
- Rietveld Structure Refinement (Atomic Parameters)
- ab Initio Tools (Charge Flipping +)
- Cluster Analysis of Powder Patterns
- Hardware Independent - supports a wide range of diffractometers
- Floating Network License - can work as a shareable multi-seat license





JADE Pro

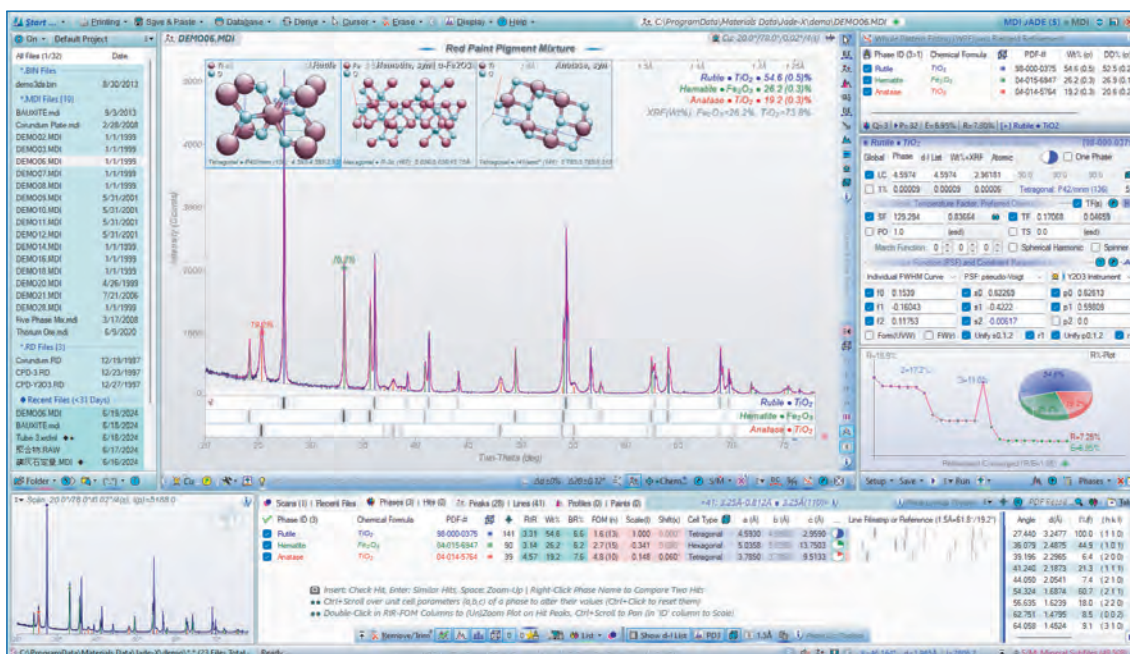
JADE Pro is all-inclusive!

JADE Pro includes all of the features of JADE Standard, plus batch processing Whole Pattern Fitting (WPF) and Rietveld refinement tools that go beyond what is available in JADE Standard.

JADE's One-Click-Analysis™ and Toolkit are only found in JADE Pro. Additionally, JADE Pro features a unique floating network license that allows access on one concurrent system at a time, so when a license is not in use, it is available to someone else in your organization. Discounted additional seats create access to more concurrent shareable licenses that work together.

KEY POINTS

- All-inclusive - Everything in JADE Standard and so much more
- Phase ID (Search/Match)
- Batch processing Whole Pattern Fitting (WPF) and Rietveld
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- Cluster Analysis of Powder Patterns
- Hardware Independent - supports a wide range of diffractometers
- Floating Network License - can work as a shareable multi-seat license
- Discounted Additional Seats Available



Toolkit is found only in JADE Pro

ED-XRF ▶

For manual or automatic identification of elements and minerals.

XRD Digitizer

Take a picture of an XRD plot and this tool will convert it to a digital format that you can now work with in JADE. Use advanced image editing options to tweak any imperfections or remove artifacts from your image.

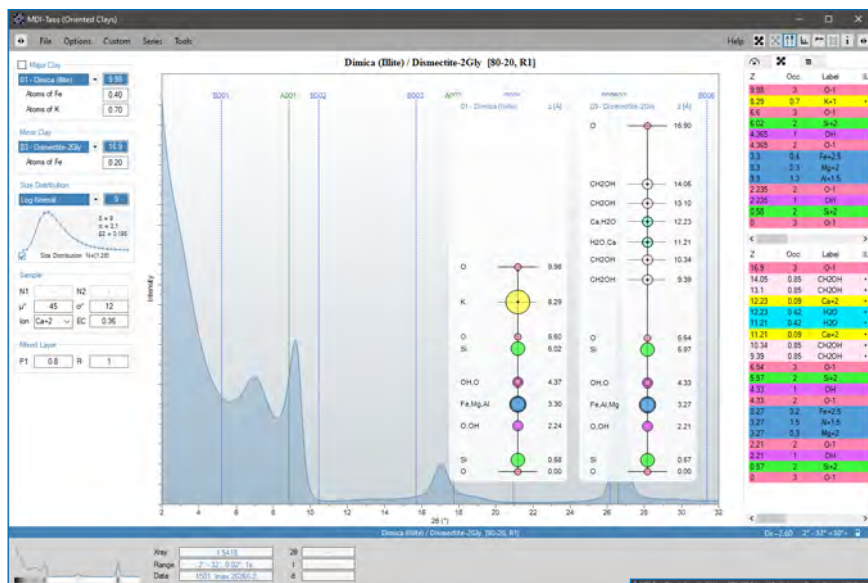
Charge Flipper + Solve Structure

For structure solution using the charge flipping method.

Regression Analysis

Easily perform regression analysis on data without leaving JADE Pro's Toolkit.





◀ For Oriented Clays

For (001)-patterns. Performs simulations and analyses of oriented clays based on structure types introduced by R.C. Reynolds.

Microstructure Tool

Provides methods for the analysis of the residual stress and microstructure defects for various diffraction geometries and is applicable to cubic phases (FCC, BCC) following a profile fitting in JADE (D. Rafaja).

Area Detector Tool

Built to extract powder patterns from images obtained with flat area detectors, so that they can easily be analyzed in JADE Pro.

Raman Mineral ▶

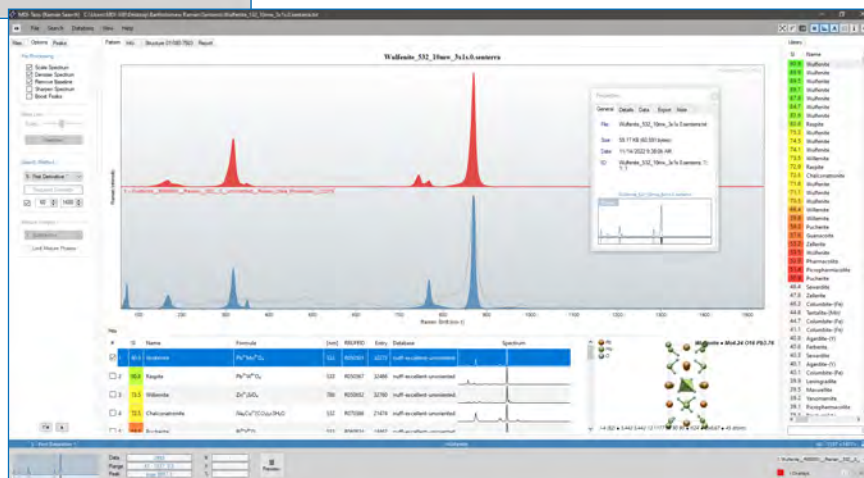
Designed for the mineral phase ID from Raman Stokes spectra. Whole spectra correlation functions are used for finding similarity matches for single-phase and multi-phase spectra.

MDI SizeStrain

Designed for crystallite size and micro-strain analysis using X-ray powder diffraction data. This Toolkit supports both Warren-Averbach and Williamson-Hall methods for crystallite size determination.

3D Scatter Plot

A scatter plot tool for xyz data sets from columnar data files.



◀ Cluster Analysis with Dendrograms

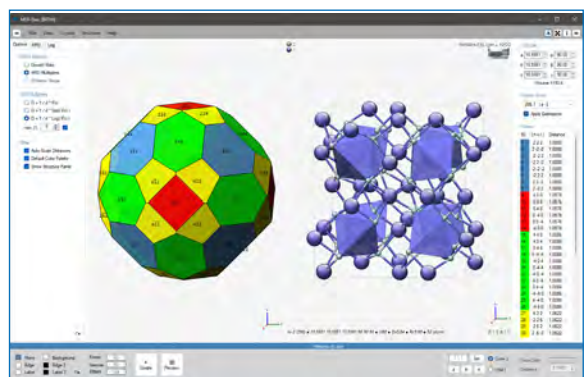
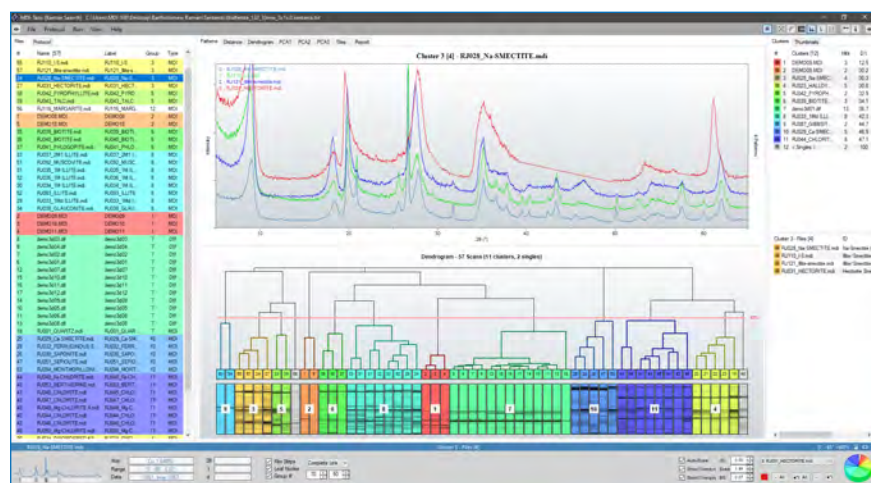
View your clusters with automatic cluster color coding with Principal Component or Fuzzy Clustering. Streamline your analysis by adding reference patterns as cluster markers, recalling setup protocols for reproducibility and other correlation functions for determining pattern similarities.

Pattern Matching

Try the full Pattern Matching method used in both ROCKJOCK and ClaySim.

Lave Visualization

Lave simulations, stereographic projections and alternative structure visualizations.

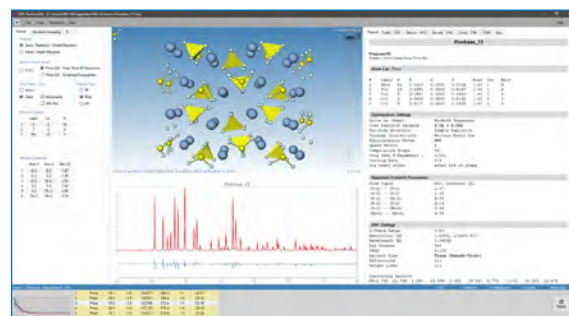


◀ BFDH Morphology

Create predicted crystal shapes based on the Bravais-Friedel-Donnay-Harker model. Many options for other calculations.

Simulated Annealing ▶

An alternative direct space structure solution method (SA) designed for inorganic structures applying Coulomb interactions and repulsive potentials.



JADE Standard

JADE Standard provides a more limited set of tools than JADE Pro, but without the annual updates and renewal costs.

Available in three levels -

1. Basic Level
2. Add either Phase ID (S/M) or WPF + Rietveld
3. Add both Phase ID (S/M) and WPF + Rietveld

Included with all levels of JADE Standard -

Simulation and Visualization - Simulate powder patterns to create your own custom database. Visualize a structure in 3D with motion. Visual cues throughout to better help you and your team understand the materials you are analyzing.

KEY POINTS - ALL LEVELS

- Reads all vendor pattern files
- Handles variable/fixed-slit data
- Auto peak search and multi-filter search
- Simulate powder patterns from crystal structures
- No annual renewal fee
- Individually licensed for workstations
- Hardware Independent - supports a wide range of diffractometers

PHASE ID (SEARCH/MATCH)

- Found in Levels
2A: Search/Match
3: Search/Match and Whole Pattern Fitting
- Phase Identification (S/M)
- Minor and Trace Phase ID

WPF + RIETVELD

- Found in Levels
2B: Whole Pattern Fitting (WPF)
3: Search/Match and WPF
- WPF & Rietveld Refinement



| Level 1 | Level 2 (A or B) | | Level 3 ...or choose JADE Pro, and get it all and more! |
|---------|------------------|----------------|---|
| Base | Base | Base | Base |
| | Phase ID (S/M) | | Phase ID (S/M) |
| | | WPF + Rietveld | WPF + Rietveld |

Phase ID (S/M) - JADE Standard Level 2A or Level 3
Profile-based Search/Match with minor and trace phase ID or search on a single peak. Ability to include chemistry filters and unit cell data as well as preferred-orientation.

WPF + RIETVELD - JADE Standard Level 2B or Level 3
Quantify weight percentages and identify minor phases quickly and easily.

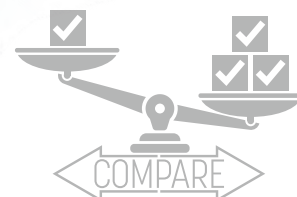


JADE QA

A special build meant for production line Quantitative Analysis (QA) typically carried out by a technician. Requires a setup file created by an analytical scientist using JADE Pro. JADE QA runs independently of JADE Pro and was designed to extend the power of Rietveld Quantitative Analysis (QA) to those in your organization responsible for overseeing consistencies in production who may or may not have a background in XRD.



...Compare on the next page!



Get More Power With JADE Pro

JADE is available in Pro and Standard

JADE FEATURE LIST

| | Pro | 1 | 2A | 2B | 3 |
|--|-----|---|----|----|---|
| Intuitive, State-of-the-Art UI | ✓ | ✓ | ✓ | ✓ | ✓ |
| Reads All Vendor Pattern Files | ✓ | ✓ | ✓ | ✓ | ✓ |
| Smart Column Data Importer | ✓ | ✓ | ✓ | ✓ | ✓ |
| Merge Multi-Scans/Segments | ✓ | ✓ | ✓ | ✓ | ✓ |
| 1, 2, and 3D Pattern Overlay | ✓ | ✓ | ✓ | ✓ | ✓ |
| Déjà Vu ID Similar Pattern Files | ✓ | ✓ | ✓ | ✓ | ✓ |
| Handles Variable/Fixed-Slit Data | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multiple Display Axes and Any Diffraction Wavelength | ✓ | ✓ | ✓ | ✓ | ✓ |
| Zero Offset Correction and Theta Calibration | ✓ | ✓ | ✓ | ✓ | ✓ |
| Background Fitting/Batch Fitting/Removal | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto Peak Search and Multi-Filter Search | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wide Variety of Report and Print Options | ✓ | ✓ | ✓ | ✓ | ✓ |
| Includes Starter Database | ✓ | ✓ | ✓ | ✓ | ✓ |
| ICDD PDF Database Access (as well as other databases) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Multitude of Data Choices for Database Retrieval | ✓ | ✓ | ✓ | ✓ | ✓ |
| View Crystal Structures and Reflection Planes | ✓ | ✓ | ✓ | ✓ | ✓ |
| View Polyhedra, Calculate Bond Distances and Angles | ✓ | ✓ | ✓ | ✓ | ✓ |
| Simulate Powder Patterns from Crystal Structures | ✓ | ✓ | ✓ | ✓ | ✓ |
| Individual Analyst/Shared Work Environments | ✓ | ✓ | ✓ | ✓ | ✓ |
| Support for Custom d-I% list for Phase Overlay | ✓ | ✓ | ✓ | ✓ | ✓ |
| Excellent Profile Fitting and Batch Profile Fitting | ✓ | ✓ | ✓ | ✓ | ✓ |
| RIR and DDM Quantitative Analysis | ✓ | ✓ | ✓ | ✓ | ✓ |
| Size & Strain and Residual Stress Analysis | ✓ | ✓ | ✓ | ✓ | ✓ |
| Line-Based Unit Cell and Batch Refinement | ✓ | ✓ | ✓ | ✓ | ✓ |
| Structure Database Manager | ✓ | ✓ | ✓ | ✓ | ✓ |
| Profile Based Search/Match (S/M) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Subfile + Chemistry + Unit Cell Filters in S/M | ✓ | ✓ | ✓ | ✓ | ✓ |
| Minor and Trace Phase ID | ✓ | ✓ | ✓ | ✓ | ✓ |
| Single Peak and Severely-Oriented S/M | ✓ | ✓ | ✓ | ✓ | ✓ |
| Solid-Solution and Isotypical Phase ID | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto-S/M in background thread on loading a pattern file | ✓ | ✓ | ✓ | ✓ | ✓ |
| Full pattern S/M on PD3 phases by correlation & similarity | ✓ | ✓ | ✓ | ✓ | ✓ |
| WPF and Rietveld Refinement (Unlimited Phases) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Gold Standard Quantitative Analysis | ✓ | ✓ | ✓ | ✓ | ✓ |
| Seamless Integration with Database Retrieval | ✓ | ✓ | ✓ | ✓ | ✓ |
| Auto-Loading of Structure Data from Database | ✓ | ✓ | ✓ | ✓ | ✓ |
| Combination of Phases with/without Structure Data Weight% | ✓ | ✓ | ✓ | ✓ | ✓ |
| Linking of Unit Cell, Phase Broadening Parameters | ✓ | ✓ | ✓ | ✓ | ✓ |
| Custom d-I% (hkl, FWHM, Skew) to Fit Clay Phases | ✓ | ✓ | ✓ | ✓ | ✓ |
| March-Dollase and Spherical Harmonics Orientation Function | ✓ | ✓ | ✓ | ✓ | ✓ |
| Amorphous Content with/without Internal Wt% Standards | ✓ | ✓ | ✓ | ✓ | ✓ |
| Atomic Occupancy and Bond Distance Constraints | ✓ | ✓ | ✓ | ✓ | ✓ |
| Polynomial and Spline Curve Background Fitting | ✓ | ✓ | ✓ | ✓ | ✓ |

All levels of JADE Standard are perpetual licenses and sold without the benefit of updates or any of JADE Pro's extensive set of extra features, like the ability to share a license. Since it is a subscription, JADE Pro has a lower buy-in than JADE Standard.



If you have JADE Classic, there still may be trade-in value for your JADE Classic towards the purchase of a current version of JADE Standard or JADE Pro.

Additional JADE Features Only Available in JADE Pro

| | Pro |
|--|-----|
| One-Click-Analysis™ - Phase ID and WPF/Rietveld Analysis | ✓ |
| Size and Strain Analysis (Warren-Averbach & Williamson Hall) | ✓ |
| Pattern Indexing (All Crystal Systems) | ✓ |
| Simulate Series of Powder Patterns from Crystal Structures | ✓ |
| WPF and Rietveld Refinement Batch Processing | ✓ |
| Rietveld Structure Refinement (Atomic Parameters) | ✓ |
| Atomic Occupancy and Bond Distance Constraints | ✓ |
| Fourier Map Tools | ✓ |
| Ab Initio Tools (Charge Flipping +) | ✓ |
| Cluster Analysis of Powder Patterns | ✓ |
| Floating (Shareable) Network License | ✓ |
| All Updates via Subscription | ✓ |
| Extract Patterns from Area Detector 2D Images | ✓ |
| Digitize Any XRD Plot Image | ✓ |
| Cluster Analysis Visualization Dendrograms | ✓ |
| Toolkit App Version of ClaySim | ✓ |
| Toolkit App for Microstructure Analysis | ✓ |
| Toolkit App for Structure Solver Workflow | ✓ |
| Live Simulations and Visualization | ✓ |
| Toolkit App for Simulated Annealing | ✓ |
| Toolkit App for Regression Analysis | ✓ |
| Toolkit App for Pattern Matching | ✓ |
| Toolkit App for 3D Scatter Plot | ✓ |

Multiple Languages!

To better support diverse teams sharing a license of JADE Pro across their organization and to ensure consistent results regardless of language, JADE can switch on the fly to Chinese or Japanese languages.



Sieve/Sieve+ 2026

Search and Identify

ICDD's search identification programs, Sieve for PDF-2 and Sieve+ for PDF-5+ and PDF-4, are designed to search and identify unknown materials. Sieve/Sieve+ are integrated into the ICDD databases to allow the use of the extensive data mining interfaces, searches, and sorts available to improve the accuracy and precision of the phase identification process.

KEY POINTS

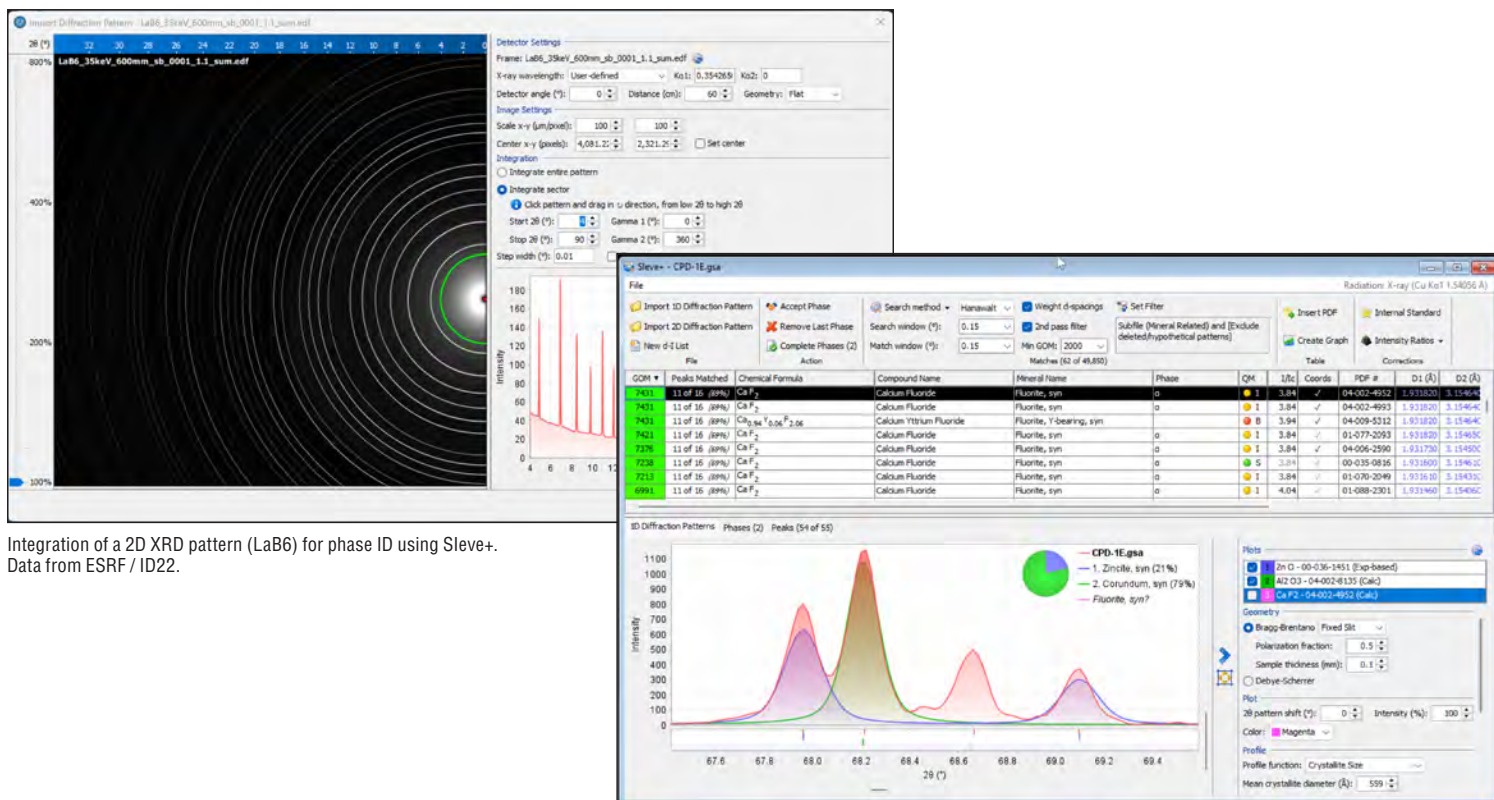
- Included for free in all PDF databases
- Designed to search and identify unknown materials
- Complementary with most commercial software programs
- Match filter algorithms - better results, more accuracy
- Identify non-crystalline materials and complex multi-phase specimens
- Strength of Sieve/Sieve+ is evident in the analysis of minor and trace phases
- Supports X-ray and synchrotron data
- "Intelligent" RIR for semi-quantitative analysis*

* PDF-5+/PDF-4 only feature (Sieve+)

Sieve+ offers a variety of algorithms and options that allow users to optimize results for particular chemistries for both standard and non-standard diffraction systems.

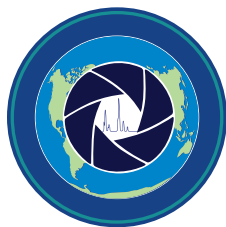


Phase ID of a zeolite missing the strongest peak using the new Deep Search option in Sieve+.



Integration of a 2D XRD pattern (LaB6) for phase ID using Sieve+. Data from ESRF / ID22.

Temporarily hide phase plots with checkboxes in Sieve+.



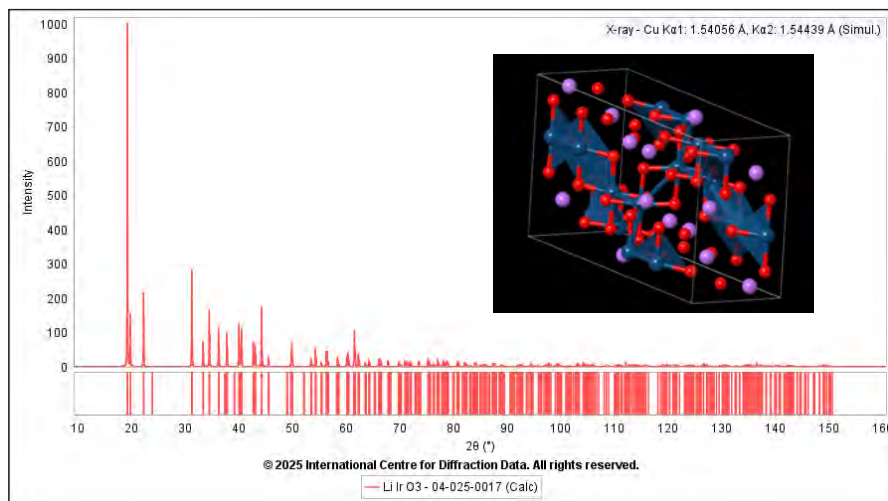
PDF-4/Axiom 2026

Quality Plus Value

PDF-4/Axiom is focused on identification and quantitation with data entries selected for benchtop users.

KEY POINTS

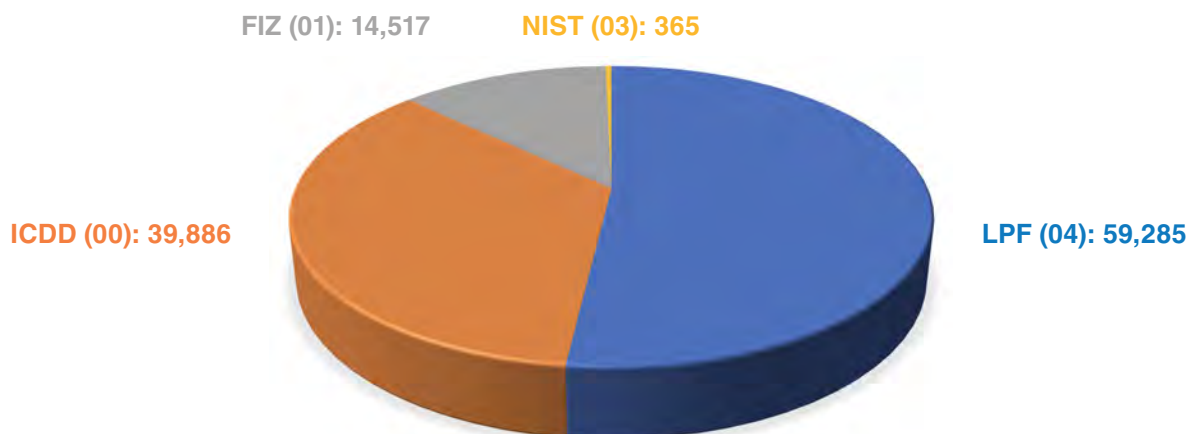
- Cost-effective
- Single License: Three (3) year license term
- Optional: Two (2) additional seats (three (3) year license term)
- Six (6) year and nine (9) year prepaid packages available
- New license available after term expires
- Featuring 114,000+ entries, including inorganic and organic entries
- 84,200+ entries with atomic coordinates
- Number of entries with I/I_c values: 84,800+
- Extensive data mining is facilitated with 118 display fields coupled with 82 searches
- Data focused on ambient entries
- Fundamental mineral entries
- ICDD data mining software Sleeve+ Included



Lithium Iridium Oxide (LiIrO₃): 04-025-0017

Database Sources

(See inside front cover for ICDD's collaborative partners)



Axiom Purchase Options

| PDF-4/Axiom 2026 | USB CODE | DOWNLOAD CODE | 2025-2026 LIST \$ | 2025-2026 ACADEMIC \$ |
|--|----------|---------------|-------------------|-----------------------|
| New - Single License | AX4S26 | AX4L26 | \$3,715 | \$2,665 |
| Two Additional Seats (each seat: single PC installation) | AX4S26MS | AX4L26MS | \$1,050 | \$540 |

PDF-4/Axiom 2026 Packages*

| | | | | |
|-----------------------|---------|---------|----------|---------|
| PDF-4/Axiom - 6 years | AX4S6YR | AX4L6YR | \$7,430 | \$5,330 |
| PDF-4/Axiom - 9 years | AX4S9YR | AX4L9YR | \$11,145 | \$7,995 |

* Purchase two or three Single Licenses (Release 2026, Release 2029, and Release 2032)
 — Each PDF-4/Axiom product is licensed for three (3) years
 — Shipping fees for all databases billed on the original invoice

*Please see product policies on pages 18 and 19



PDF-4/Minerals 2026

Comprehensive Mineral Collection

PDF-4/Minerals is the most comprehensive collection of mineral data in the world! Ninety-seven percent of all known mineral types, as defined by the International Mineralogical Association (IMA), are represented in the database.

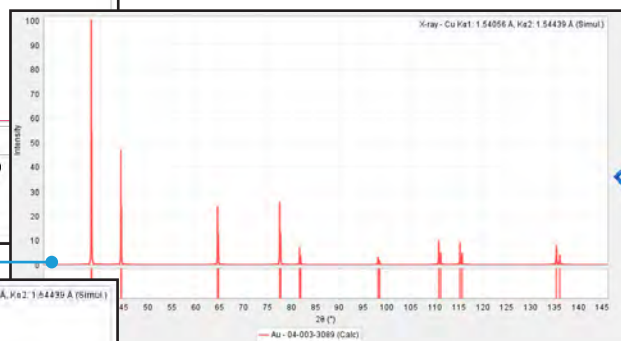
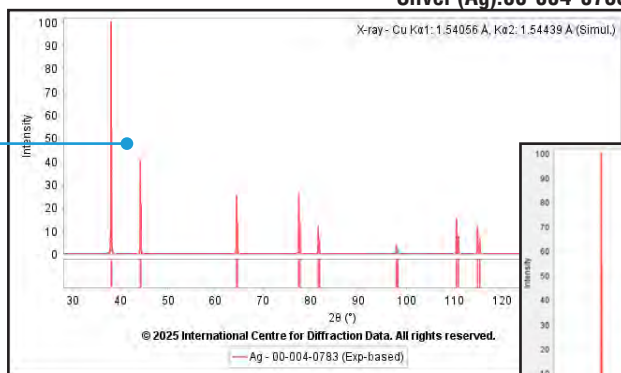
KEY POINTS

- Rapid phase identification, plus support for automated quantitative analyses
- Features 54,900+ entries, including 45,600+ entries with atomic coordinates
- Integrated data mining software
- All entries have digital patterns for use in total pattern analysis
- More than 43,300+ entries have I/I_c values for quantitative analysis by Reference Intensity Ratio (RIR)
- Combines powder and single crystal data
- Classified by IMA designations
- A subset of the PDF-5+ database with all the features and capabilities, targeted to minerals and mineral related compounds
- Extensive data mining is facilitated with 118 display fields coupled with 84 searches
- One (1) year license serviced by subscription

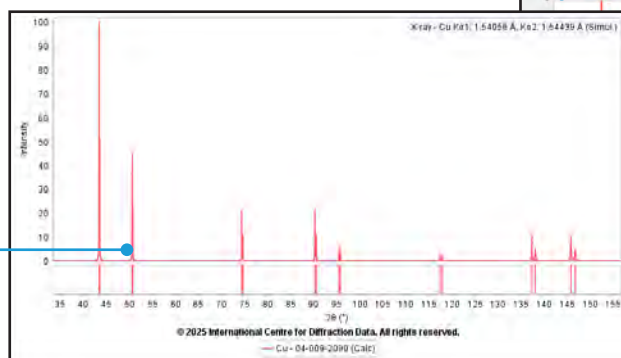
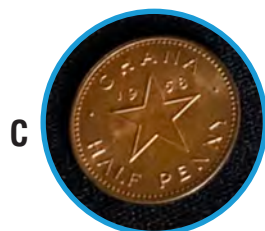


The precious metals of (A) Silver, Ag; (B) Gold, Au; and (C) Copper, Cu.

Silver (Ag):00-004-0783



Gold (Au):04-003-3089



Copper(Cu):04-009-2090

PDF-4/Minerals Purchase Options

| PDF-4/Minerals 2026 | USB CODE | DOWNLOAD CODE | 2025-2026 LIST \$ | 2025-2026 ACADEMIC \$ |
|---------------------------|----------|---------------|-------------------|-----------------------|
| New - Single License | MN4S26 | MN4L26 | \$1,840 | \$1,250 |
| Renewal from 2025 to 2026 | MNR4S26 | MNR4L26 | \$985 | \$650 |

PDF-4/Minerals 2026 Multi-year License*

| | | | | |
|--------------------------|------------|------------|---------|---------|
| Renewal - 3 year license | MNS427MR29 | MNL427MR29 | \$2,955 | \$1,950 |
| Renewal - 5 year license | MNS427MR31 | MNL427MR31 | \$4,925 | \$3,250 |

*Please see product policies on pages 18 and 19



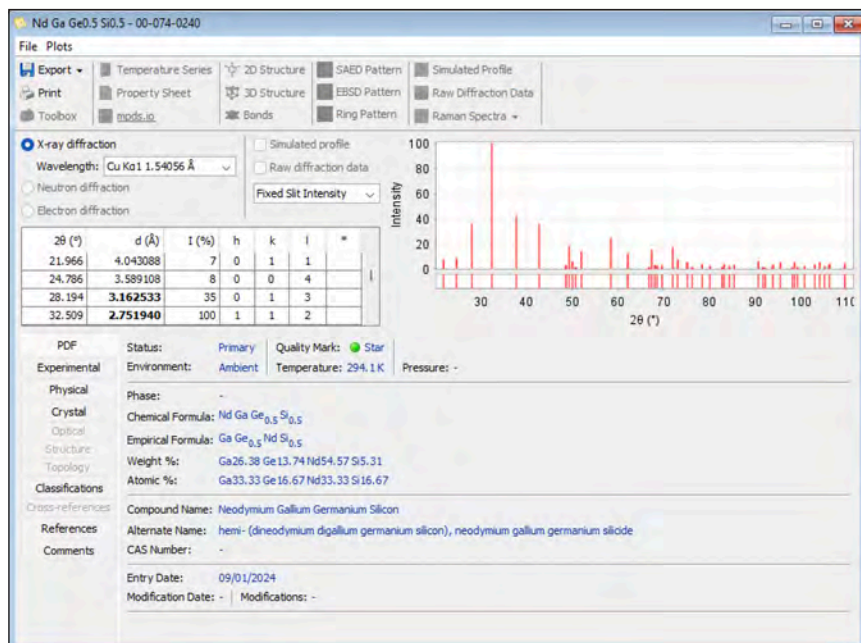
PDF-2 2026

Phase Identification + Value

PDF-2 is designed for inorganic materials analyses. In addition, common organic materials from ICDD are added to the database to facilitate rapid materials identification.

KEY POINTS

- Features 369,200+ entries
- 265,700+ entries have I/I_c values for quantitative analysis by Reference Intensity Ratio (RIR) method
- Integrated data mining software
- Sieve search-indexing software included
- Combines powder and single-crystal data
- Rapid data mining with our 60 display fields coupled with 75 searches
- Five (5) year license



Intermetallic compounds display interesting physical and chemical properties. They are used in industry as shape memory alloys, as materials for hydrogen storage, catalysis, as well as magnetic, thermoelectric, or superconducting materials.

PDF-2 Purchase Options

| PDF-2 2026: Five (5) year License | USB CODE | DOWNLOAD CODE | 2025-2026 LIST \$ | 2025-2026 ACADEMIC \$ |
|-----------------------------------|-----------|---------------|-------------------|-----------------------|
| New - Single License | C2S26PN | C2L26PN | \$9,395 | \$6,265 |
| Renewal - from 2025 to 2026 | C2S25PU26 | C2L25PU26 | \$2,115 | \$1,375 |
| Renewal - from 2024 to 2026 | C2S24PU26 | C2L24PU26 | \$4,230 | \$2,750 |
| Renewal - from 2023 to 2026 | C2S23PU26 | C2L23PU26 | \$6,345 | \$4,125 |
| Renewal - from 2022 to 2026 | C2S22PU26 | C2L22PU26 | \$8,460 | \$5,500 |

PDF-2 2026: Ten (10) year License Package

| | | | | |
|--------------------------------|----------|----------|----------|----------|
| New - Licenses (2026 and 2031) | PD2S10YR | PD2L10YR | \$18,790 | \$12,530 |
|--------------------------------|----------|----------|----------|----------|

PDF-2 2025 Site License*

| | | | | |
|-------------------------------------|------------|------------|---------|---------|
| New - Master License | C2S26PNM | C2L26PNM | \$9,395 | \$6,265 |
| New - additional licenses, each | C2S26PNC | C2L26PNC | \$2,115 | \$1,375 |
| Renewal - Yearly Master License | C2S25PU26M | C2L25PU26M | \$2,115 | \$1,375 |
| Renewal - additional licenses, each | C2S25PU26C | C2L25PU26C | \$855 | \$590 |

PDF-2 to PDF-5+ Conversion

| | | | | |
|---------------------------|------------|------------|---------|---------|
| PDF-2 2025 to PDF-5+ 2026 | P2525RSU26 | P2525RLU26 | \$2,115 | \$1,375 |
| PDF-2 2024 to PDF-5+ 2026 | P2524RSU26 | P2524RLU26 | \$4,230 | \$2,750 |
| PDF-2 2023 to PDF-5+ 2026 | P2523RSU26 | P2523RLU26 | \$6,345 | \$4,125 |
| PDF-2 2022 to PDF-5+ 2026 | P2522RSU26 | P2522RLU26 | \$8,460 | \$5,500 |

*Please see product policies on pages 18 and 19

Every Powder Diffraction File entry is editorially reviewed and assigned a quality mark.

We are proud to say
ICDD's Quality Management
System is ISO 9001:2015
certified by DEKRA



Which ICDD Database is Right for You?

| | PDF-5+ 2026 | PDF-5+ Server Edition 2026 | PDF-4/ Axiom 2026 | PDF-4/ Minerals 2026 | PDF-2 2026 |
|--|----------------|----------------------------------|-------------------------|----------------------------|---------------|
| I work primarily with inorganic compounds | ■ | ■ | ■ | | ■ |
| I work primarily with organic compounds | ■ | ■ | | | |
| I work primarily with minerals | | | | ■ | |
| I work with electron diffraction/synchrotron | ■ | ■ | ■ | ■ | |
| I need to be flexible with my work location | | ■ | | | |
| I need to do quantitative analysis | | | | | |
| Rietveld | ■ | ■ | ■ | ■ | |
| Reference Intensity Ratio (RIR) | ■ | ■ | ■ | ■ | ■ |
| Pattern Fitting | ■ | ■ | ■ | ■ | |
| I need a database with atomic coordinates | ■ | ■ | ■ | ■ | |
| How many entries are in the database? | 1,126,213 | 1,126,213 | 114,053 | 54,940 | 369,274 |
| How many entries are new? | 25,064 | 25,064 | 4,075 | 1,715 | 9,867 |
| I am using vendor software for my analysis. Which databases will work with my vendor software? Global software vendors provide search/match software that interfaces with our databases. Please check with your software vendor for compatibility. | ■ | ■ | ■ | ■ | ■ |
| What is the license term for the database? | 1 year | 1 year | 3 years | 1 year | 5 years |
| Multi-year license available | ■ | ■ | | ■ | |
| Site license available | ■ | ■ [†] | | | ■ |

[†] Requires a 5 concurrent user minimum license.

System Requirements:

- Intel® Core™ 2 Duo processor (recommended minimum) or better
- 4 GB system memory

JADE Standard/JADE Pro:

- Intel® Core™ i7, i5, or i3
- 8 GB system memory
- 24" or larger monitor - Your JADE experience will be richer on a larger screen.

Hard Disk Space Requirements

- PDF-2 2026 – 5 GB
- PDF-5+ 2026 – 38 GB
- PDF-5+ Server Edition 2026 – 38 GB
- PDF-4/Minerals 2026 – 2 GB
- PDF-4/Axiom 2026 – 4 GB
- JADE Standard/JADE Pro – 400 MB

Support Microsoft® Operating System:

- Windows® 7 SP1
- Windows® 8/8.1
- Windows® 10
- Windows® 11

Do you have 5 or more concurrent users on a network? See pages 6 - 7 for Server Edition details.



ICDD's FREE Webinar Series

Mastering the PDF Database and JADE Software

Learn the potential of Powder Diffraction File and JADE from ICDD's and Materials Data's experts and developers. Take an hour to build your confidence and productivity.



Our Experts Teach You:

Quantitative Phase Analysis with Cements

Raman Search Match

Clay Analysis

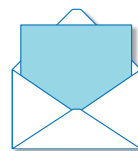
Data Mining in the Powder Diffraction File

Navigating a Powder Diffraction File Entry

and more

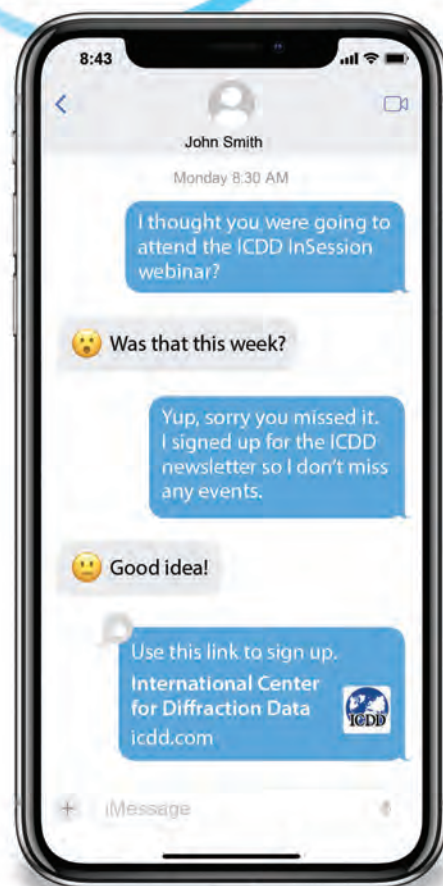


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Registration License Key: Registration is required upon installation. The license key is issued on the date of registration and will allow access to the database in accordance with the purchased product license term.

Contact ICDD for PDF-5+ registration information - registration@icdd.com

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Product Subscription: The PDF-5+ and PDF-4/Minerals, as well as all database site and multi-year licenses, are serviced by subscription. All subscriptions are based on the original invoice date. This means that PDF-5+ and PDF-4/Minerals renewals, site licenses, and multi-year licenses are due on the month of the original invoice. For example, if your original invoice was in May 2025, then your renewal will be due in May 2026.

PDF-2: The license term for PDF-2 with Sleve is five (5) years.

PDF-4/Axiom: The license term for PDF-4/Axiom with Sleve+ is three (3) years.

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RELEASE 2026

LICENSE TERMS

| Product | License Term |
|-----------------|--------------|
| PDF-2 | 5 years |
| PDF-4/Axiom | 3 years |
| PDF-5+* | 1 year |
| PDF-4/Minerals* | 1 year |

* Serviced by subscription featuring automatic annual renewals.

Product License Policies

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An academic price is awarded to degree-granting (Assoc., B.S., M.S., Ph.D.) institutions and organizations that provide resources for student's course work that are affiliated with the degree-granting institution. Institutions may be required to submit documentation to verify eligibility. Please consult individual product pages for eligible products.

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ICDD's standard site license policy is designed for a multi-user laboratory to facilitate multiple licenses of the PDF-2 or PDF-5+ databases at a single site. A single site is defined by the building where the database will be installed. Multiple users in different buildings need to purchase separate site licenses for each building.

A standard ICDD site license includes the purchase of a Master License, and the purchase of Secondary Licenses (discounted additional licenses). Customers may purchase an unlimited number of additional licenses at discounted pricing. The number of computers that will be running the database in a single building determines the number of licenses.

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Note: PDF-4/Axiom and PDF-4/Minerals are excluded from site license options. PDF-2 and PDF-5+ cannot be combined in a single site license.

Single License → Site License

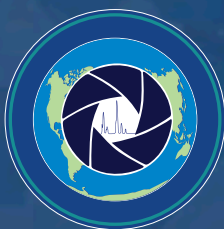
Customers with a single license may add additional licenses to create a site. To qualify for additional license pricing, the single license must be current. If necessary, customers may need to renew their single license to the current release, then add an additional license to create the site.



PDF-5+
The Powder Diffraction Standard



PDF-5+ Server Edition
Extend the Power of Your Database –
Built for Teams of Five or More



PDF-4/Axiom
Quality plus Value



PDF-4/Minerals
Comprehensive Mineral Collection



PDF-2
Phase Identification + Value

Site License Renewals

In order to take advantage of the site license renewal pricing, both the Master License and the Secondary Licenses of the database must be renewed yearly. To renew a site license, ICDD requires that the Master License and all Secondary Licenses be purchased concurrently on a single purchase order.

Multi-year Site License

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Note: (PDF-2, PDF-4/Axiom, and PDF-4/Minerals databases are not eligible).

Multi-year License Policy

To assist customers with their yearly renewals, ICDD offers multi-year licenses that allow you to prepay for future renewals. The multi-year license renewal pricing provides savings on yearly license renewals, along with fixed pricing on the renewal for the purchased license term. Multi-year pricing is available for PDF-5+. If the price for these products increases during your multi-year license period, you will not be billed the difference.

To purchase a multi-year license, users need to purchase a new license to the current release of the PDF or renew their license to the current release using the current prices. Users may then purchase additional years for their license. All shipping charges will be billed on the original invoice. The multi-year license is serviced by subscription with yearly automatic renewals based on the anniversary of the original invoice date for PDF-5+. For each year in your multi-year license, you will receive the newest release of your PDF product. You will need to install and register your new product for each release.

Multi-year license renewal pricing for PDF-4/Minerals is offered as a convenience to our customers. It is not subject to the discount offered with our other multi-year licenses.

Note: PDF-2 and PDF-4/Axiom databases are not eligible for multi-year licensing options; however ICDD offers prepaid packages. Visit page 13 for PDF-4/Axiom and page 15 for PDF-2.

PDF-5+Scholar Multi-year License for Academics 10-Year License



PDF-5+Scholar is an incentive available solely for our academic customers who qualify under ICDD's academic license policy.

PDF-5+Scholar is a ten (10) year multi-year license package for PDF-5+. It is identical to PDF-5+ in content and capability. The 10-Year license includes purchase of PDF-5+ (new or renewal to the current

product release), plus the PDF-5+Scholar multi-year license. During your 10-Year license, you will receive six (6) products of the newest release of the PDF-5+. The first five (5) PDF-5+ products will be licensed for one (1) year. The final sixth (6th) PDF-5+ product will be the PDF-5+Scholar product, which is licensed for five (5) years.

The 10-Year license is available on USB or download.

Like PDF-5+ and PDF-4/Minerals, the 10-Year license is handled by automatic subscription. The yearly automatic renewals will be shipped based on the anniversary of the original invoice for the 10-Year license. Shipping fees for all databases are billed on the original invoice.

For more information, please visit:
www.icdd.com/pricing-policies/

Product warranty is on the preferred computer specifications associated with the product release. If you need to change your computer specifications, ICDD recommends that you reference the ReadMe.txt or product insert for your product release to check for compatibility.

Take advantage of ICDD's prepaid packages:

PDF-2: 10-Year license – Page 15

PDF-5+Scholar: 10-Year license for Academics – Page 5

PDF-4/Axiom: 6-Year and 9-Year license prepaid – Page 13

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Practical X-ray Fluorescence

Spring 2026

www.icdd.com/xrf

Fundamentals of X-ray Powder Diffraction

Summer 2026

www.icdd.com/xrd

Advanced Methods in X-ray Powder Diffraction

Summer 2026

www.icdd.com/xrd

Rietveld Refinement & Indexing

Fall 2026

www.icdd.com/rietveld



*Dates, location, and format of courses and conferences may be subject to change.

CONFERENCES*

www.icdd.com → Conferences

75th Denver X-ray Conference

The Westin Chicago Lombard, Lombard, Illinois, USA
3-7 August 2026

DXC is the world's largest annual conference dedicated to the fields of X-ray analysis. Experts in the fields of X-ray diffraction and X-ray fluorescence gather for a week of workshops, technical sessions, and manufacturer's exhibits. DXC attendees will have access to sessions on the latest advancements in XRD and XRF.

www.dxcicdd.com

Pharmaceutical Powder X-ray Diffraction Symposium

XRD Training for the Pharmaceutical Scientist! ICDD sponsors this symposium designed to create a forum for the exchange of knowledge and cutting-edge ideas among those interested in the combined fields of XRD and pharmaceutical sciences. Visit the PPXRD website for news on the next symposium. Search and browse presentations from past PPXRD for free.

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RESOURCES

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Powder Diffraction Journal

ICDD's international journal, *Powder Diffraction*, focuses on materials characterization employing X-ray powder diffraction and related techniques. *Powder Diffraction* is published quarterly and with special topical issues. See freshly approved manuscripts online - since 2013, authors have utilized First View to speed approval of their manuscripts.

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