

The Powder Diffraction File™ (PDF®)
& JADE® Software



THE INTERNATIONAL CENTRE FOR DIFFRACTION DATA (ICDD®)

is a non-profit scientific organization with over eight decades of experience collecting, editing, publishing, and distributing powder diffraction data for the identification of materials. ICDD's membership spans academe, government, and industry worldwide. ICDD's quality commitment is certified to ISO 9001:2015 by DEKRA — ensuring every entry in the Powder Diffraction File meets rigorous editorial standards before publication. Our databases represent the world's largest solid-state collection spanning minerals, metals and alloys, polymers, active pharmaceuticals, and commercial materials.

Our collaborative partners include:

- **Cambridge Crystallographic Data Centre (CCDC)**, Cambridge, UK — Cambridge Structural Database (CSD)
- **FIZ Karlsruhe** – Leibniz Institute for Information Infrastructure, 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 vendors' software



Quality Management System Certified
to ISO 9001:2015 by DEKRA

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Visit www.icdd.com

- Free PDF Phase Search by chemical name, formula, or elements to help you find the right ICDD database for your needs
- Full product information, pricing, and ordering
- On-demand webinars covering PDF-5+ data mining, JADE software, phase identification, quantitative analysis, and materials characterization
- Reference articles, technical bulletins, and tutorials covering PDF database capabilities and analysis methods for pharmaceuticals, polymers, and minerals
- Free access to DXC, PPXRD, and ICDD Spring Meetings documents
- Open access to 1,000+ publications from Advances in X-ray Analysis (AXA), proceedings of the Denver X-ray Conference®

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DOWNLOAD THE POWDER DIFFRACTION FILE!

BENEFIT FROM NO SHIPPING COST
AND REDUCED DELIVERY TIME!



PDF-5+



PDF-2



PDF-4/MINERALS



PDF-4/AXIOM

Important: ICDD PDF products will be available by download only 1 September 2027 beginning with Release 2028. USB media type will no longer be offered. JADE and Server products will still require the shipment of a USB dongle with new products. Installation files and renewals will be provided by download.

Contact info@icdd.com for more information.



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

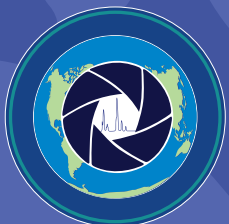
WHAT'S NEW FOR 2026-2027



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



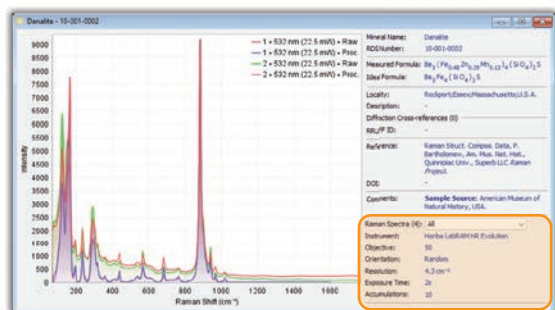
PDF-4/Minerals
Comprehensive Mineral Collection



PDF-2
Phase Identification + Value

Introducing Release 2027 of the Powder Diffraction File

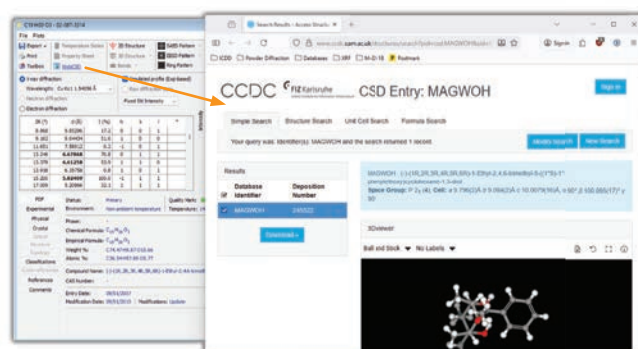
New Raman Metadata



PDF-5+/PDF-4 only

- Objective – Microscope objective used (e.g., 50×, NA value)
- Orientation – Orientation of the sample relative to the laser or polarization
- Resolution – Spectral resolution of the spectrometer (cm⁻¹)
- Exposure time – Detector integration time per scan
- Accumulations – Number of scans summed/averaged to produce the final spectrum

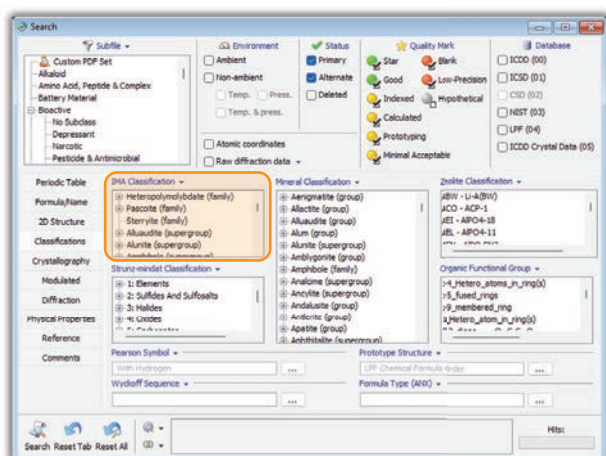
Links to Online CSD Entry



PDF-5+ only

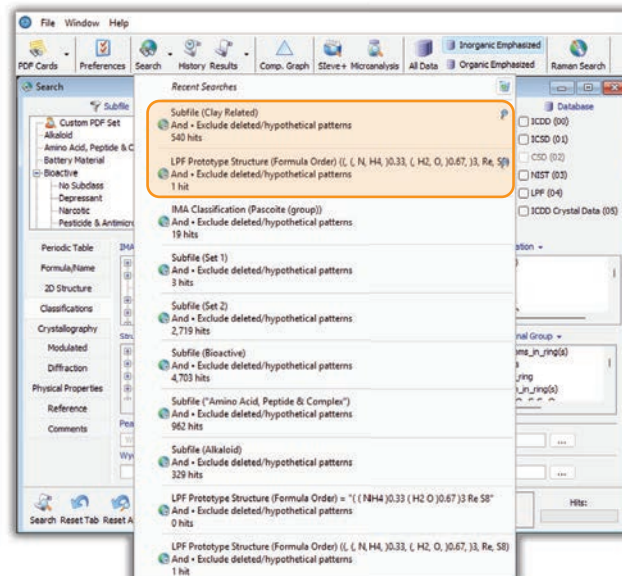
- PDF entries from the CSD (02) database now have an active link to an online CSD entry

IMA Classification Search



- Enables users to efficiently filter and explore entries by standardized mineral classification categories defined by the IMA (International Mineralogical Association)
- Family > Supergroup > Group > Subgroup > Root Name > Species

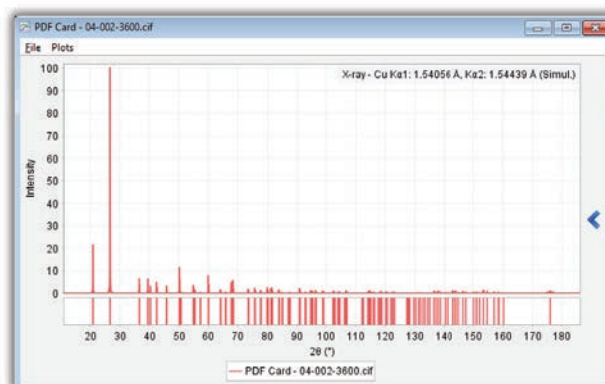
Pin Searches to Top



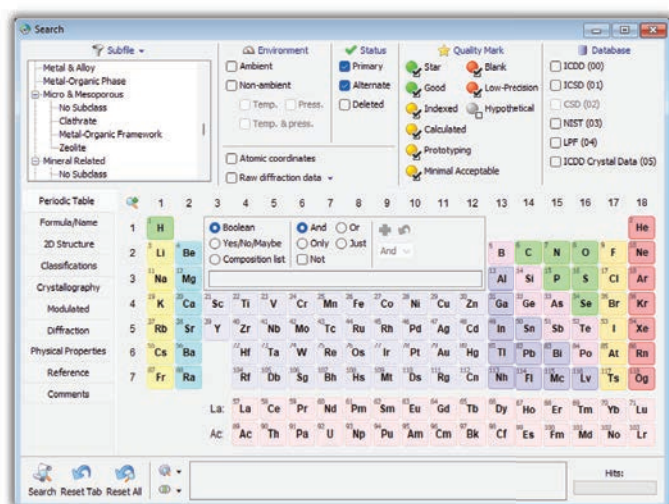
- A user can now pin a favorite search to the top of the recent searches drop-down menu for quick and easy access

Simulate 1D Diffraction Patterns from CIF Files

```
data_04-002-3600
# Copyright 2026 International Centre for Diffraction Data. All rights reserved.
_audit_creation_date      2026-02-19
_audit_creation_method    'Generated by PDF-5+ 2027 null'
_chemical_name_systematic 'Silicon Oxide'
_chemical_name_mineral   Quartz
_chemical_name_common    'quartz enfume'
_chemical_formula_moiety  'Si O2'
_chemical_formula_sum     'O2 Si'
_chemical_formula_weight  60.08
_cell_length_a            4.9134
_cell_length_b            4.9134
_cell_length_c            5.4046
_cell_angle_alpha         90
_cell_angle_beta         90
_cell_angle_gamma         120
_cell_formula_units_Z     3
_cell_volume              112.99
_symmetry_cell_setting    hexagonal
_symmetry_space_group_name_H-M P3121
_symmetry_Int_Tables_number 152
```



PDF-5+/PDF-4 only



Faster Periodic Table Searches

	2026	2027
Contains H	6s	1s
Just 8 elements	5s	1s
Just 16 elements	17s	1s

PDF-5+ Mid-Year Updates

A mid-year update will be deployed in April 2027 that will add brand-new PDF entries to the user's existing PDF-5+ database



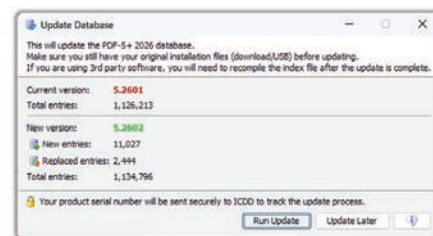
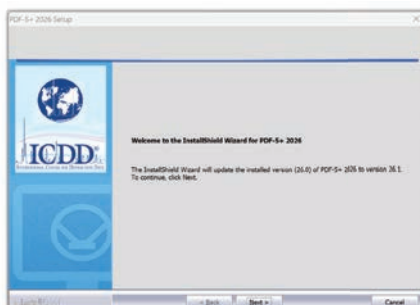
1. The user is prompted to download the mid-year update when they run the PDF-5+ software



2. After downloading the update, the user is prompted to run the update installation



3. After running the update installation, the user will be prompted to update the database, which adds 11,027 new PDF entries



PDF-5+ 2027

THE POWDER DIFFRACTION STANDARD

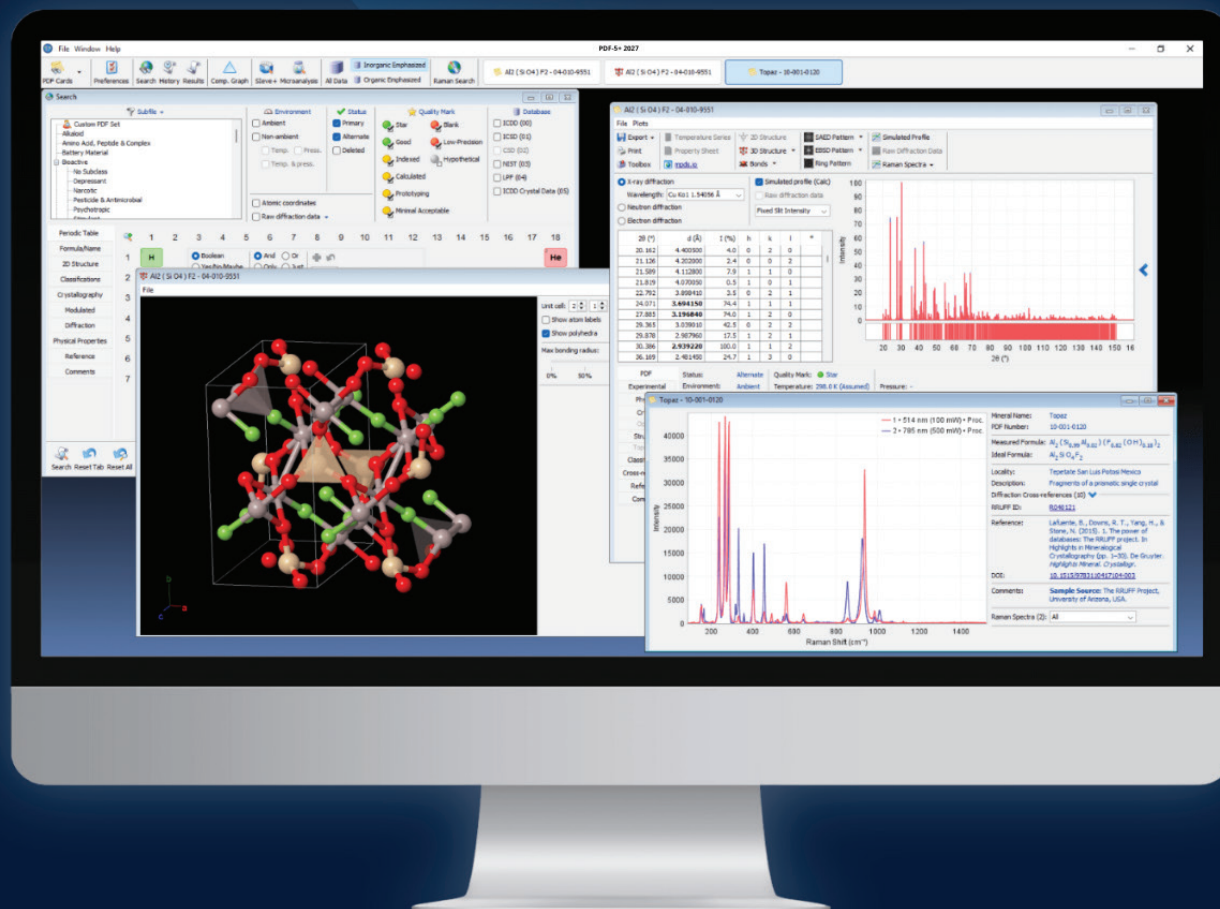
1,149,100+ Inorganic & Organic entries combined into one powerful database.

www.icdd.com/pdf-5



PDF-5+ is the world's most comprehensive diffraction reference database for solid-state materials – combining inorganic and organic data from crystals and powders into a single, searchable resource. Researchers rely on it for phase identification and quantitative analysis of unknown materials using X-ray diffraction.

- Features 486,100+ entries for inorganic materials and 667,100+ entries for organic materials
- 700,400+ entries with atomic coordinates
- All entries have digital patterns for use in total pattern analysis
- 1,043,800+ 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

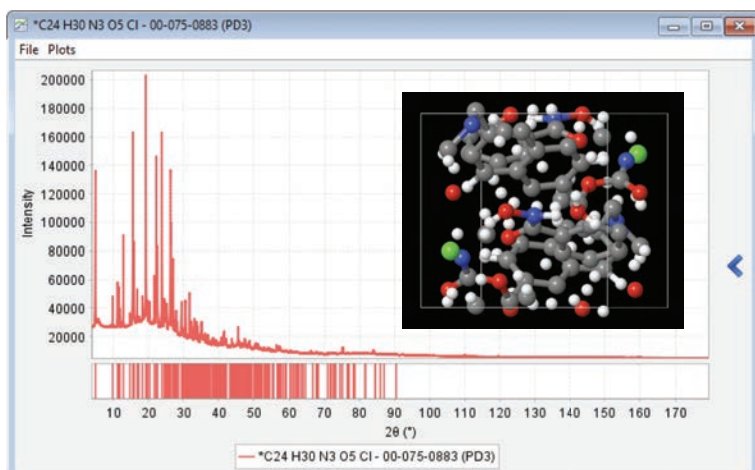




PDF-5+ 2027

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.



Crystal structure of givinstat hydrochloride monohydrate form I, $C_{24}H_{28}N_3O_4Cl(H_2O)$

KEY POINTS

- Rapid phase identification designed to support automated quantitative analyses
- Features 1,149,100+ entries with over 700,400+ having atomic coordinates
 - > 486,100+ entries for inorganic materials
 - > 667,100+ entries for organic materials
- Integrated data mining software
- All entries have digital patterns for use in total pattern analysis
- More than 1,043,800+ 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 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 86 searches
- LPF entries have a link to mpds.io
- One (1) year license serviced by subscription

PDF-5+ Purchase Options

PDF-5+ 2027	USB CODE	DOWNLOAD CODE	2026-2027 LIST \$	2026-2027 ACADEMIC \$
New - Single License	P5NS	P5NL	\$9,395	\$6,265
Renewal from 2026 to 2027	P5RS	P5RL	\$2,115	\$1,375

PDF-5+ and JADE Pro Bundle*

New - Single License	BUJPP5S	BUJPP5L	\$16,310	\$11,465
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*Purchase a new license for PDF-5+ and JADE Pro

PDF-5+ 2027 Multi-year License*

Renewal - 3 year license	Not Available†	P5MYL3YR	\$5,710	\$3,715
Renewal - 5 year license	Not Available†	P5MYL5YR	\$8,990	\$5,845

PDF-5+ Scholar 2027 (10-Year License Package)*

PDF-5+ New - Single License	P5NS	P5NL		\$6,265
Scholar Multi-year	Not Available†	P5MYLSP	NA	\$5,845
				\$12,110

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

PDF-5+ 2027 Site License*	USB CODE	DOWNLOAD CODE	2026-2027 LIST \$	2026-2027 ACADEMIC \$
New - Master License	P5NS-M	P5NL-M	\$9,395	\$6,265
New - Additional licenses, each	P5NS-C	P5NL-C	\$2,115	\$1,375
Renewal - Yearly Master License	P5RS-M	P5RL-M	\$2,115	\$1,375
Renewal - Additional licenses, each	P5RS-C	P5RL-C	\$855	\$590

PDF-5+ 2027 Site/Multi-year License*

Renewal - 3 year Master Site License	Not Available†	P5MYL3YR-M	\$5,710	\$3,715
Renewal - 3 year additional licenses, each	Not Available†	P5MYL3YR-C	\$2,565	\$1,770
Renewal - 5 year Master Site License	Not Available†	P5MYL5YR-M	\$8,990	\$5,845
Renewal - 5 year additional licenses, each	Not Available†	P5MYL5YR-C	\$4,275	\$2,950

PDF-2 to PDF-5+ Conversion

PDF-2 2026 to PDF-5+ 2027	P25RSCONV	P25RLCONV	\$2,115	\$1,375
PDF-2 2025 to PDF-5+ 2027	P25RSCONV-2	P25RLCONV-2	\$4,230	\$2,750
PDF-2 2024 to PDF-5+ 2027	P25RSCONV-3	P25RLCONV-3	\$6,345	\$4,125
PDF-2 2023 to PDF-5+ 2027	P25RSCONV-4	P25RLCONV-4	\$8,460	\$5,500

*Please see product policies on pages 18 and 19

†USB Media will be discontinued 1 September 2027. Prepaid Packages and Multi-year pricing options are no longer available on USB.



PDF-5+ SERVER EDITION

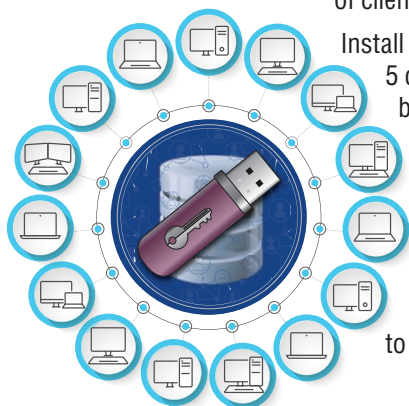
The Network Shareable PDF

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+ 2027

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 486,100+ inorganic and 667,100+ 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: Reference Intensity Ratio (RIR) method, or using JADE or OEM software for Rietveld Analysis and 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

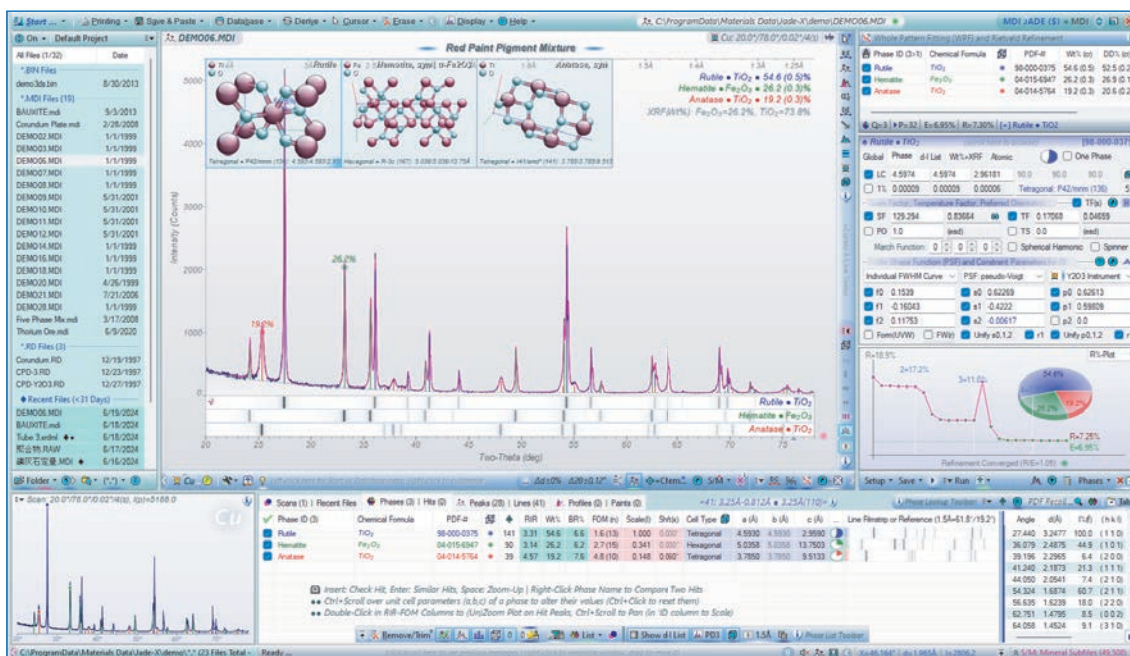
JADE Pro is all-inclusive!

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.

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- 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.



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	✓
Laue 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+ 2027

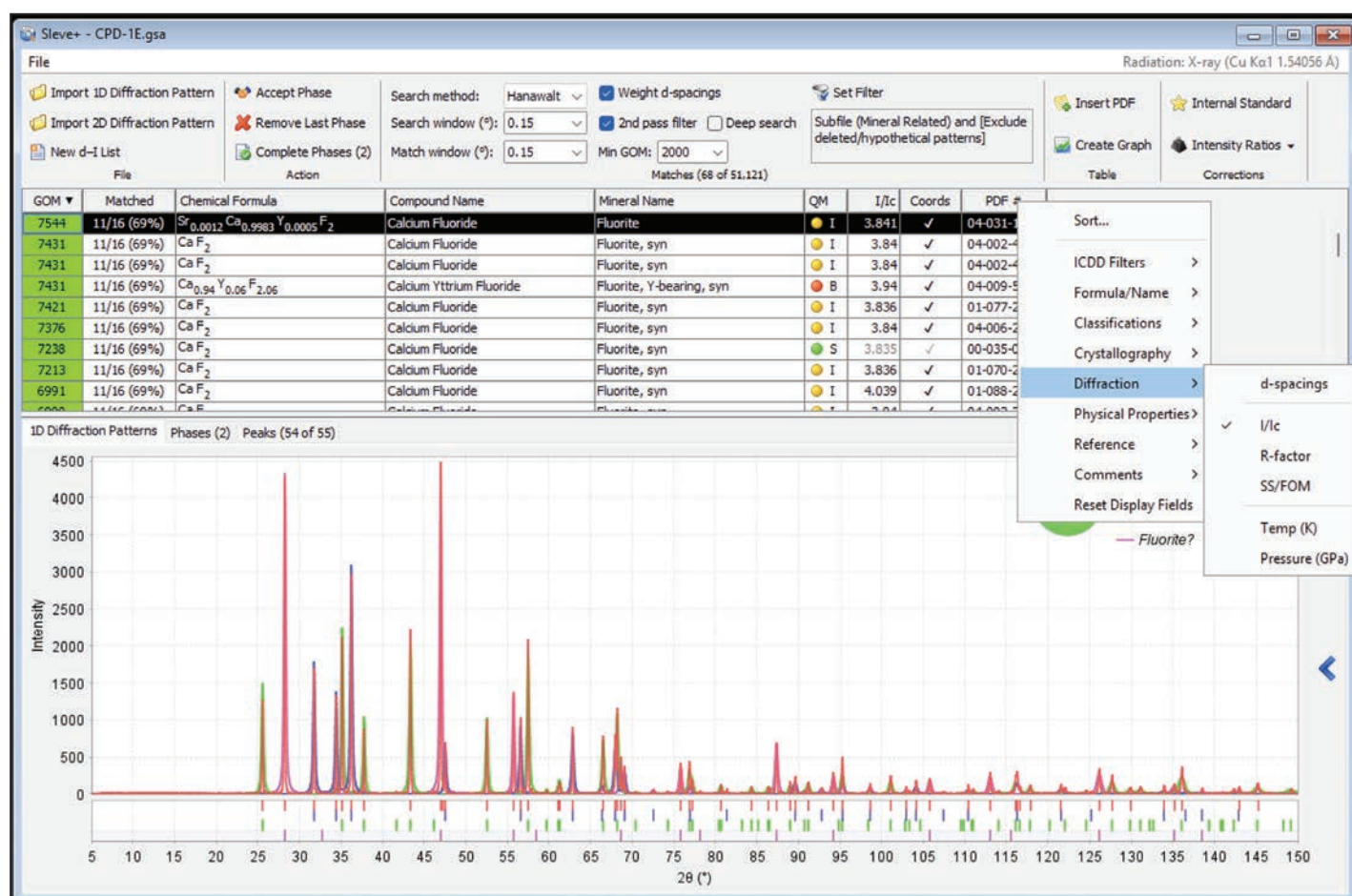
Search and Identify

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.

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.

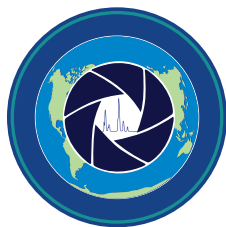
KEY POINTS

- 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*



Show/hide d-spacing columns in the Matches table

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



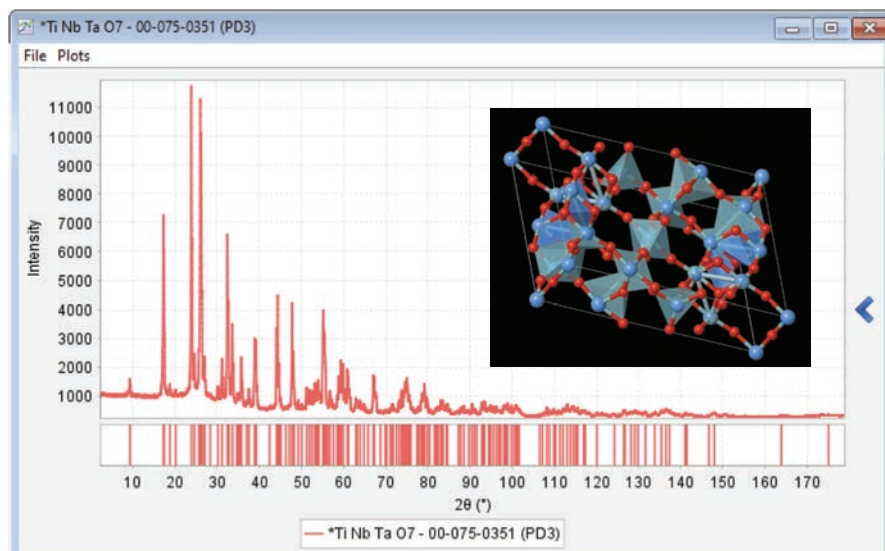
PDF-4/Axiom 2027

Quality Plus Value

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

KEY POINTS

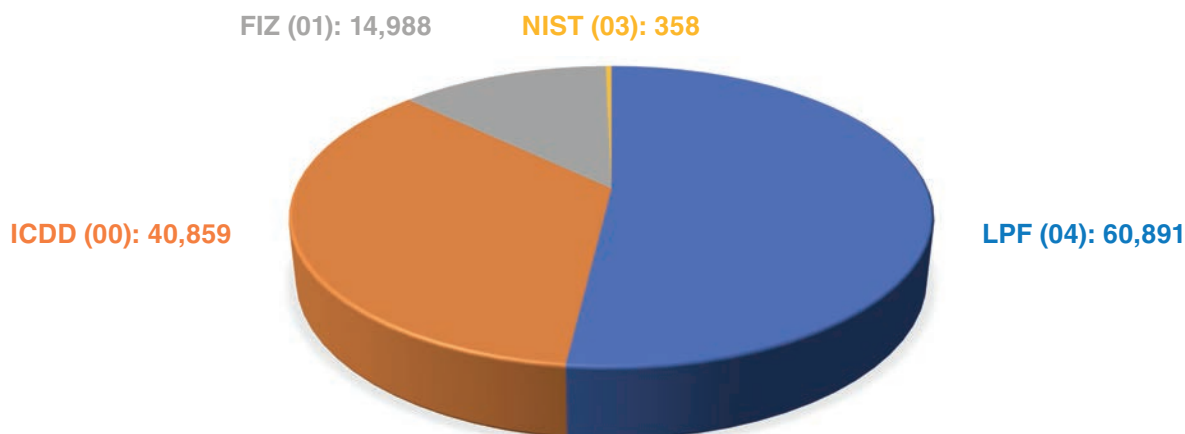
- Cost-effective
- Featuring 117,000+ entries, including inorganic and organic entries
- 91,000+ entries with atomic coordinates
- Number of entries with I/I_c values: 86,900+
- Extensive data mining is facilitated with 118 display fields coupled with 85 searches
- Data focused on ambient entries
- Fundamental mineral entries
- ICDD data mining software Sleeve+ included
- 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



Titanium Niobium Tantalum Oxide, TiNbTaO₇

PDF-4/Axiom Database Sources

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



Axiom Purchase Options

PDF-4/Axiom 2027	USB CODE	DOWNLOAD CODE	2026-2027 LIST \$	2026-2027 ACADEMIC \$
New License - 3 years	AX4S	AX4L	\$3,715	\$2,665
Two Additional Seats (each seat: single PC installation)	AX4SMS	AX4LMS	\$1,050	\$540
PDF-4/Axiom 2027 Packages*				
PDF-4/Axiom - 6 years	Not Available†	AX4L6YR	\$7,430	\$5,330
PDF-4/Axiom - 9 years	Not Available†	AX4L9YR	\$11,145	\$7,995

*Purchase two or three Single Licenses (Release 2027, Release 2030, and Release 2033)

-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

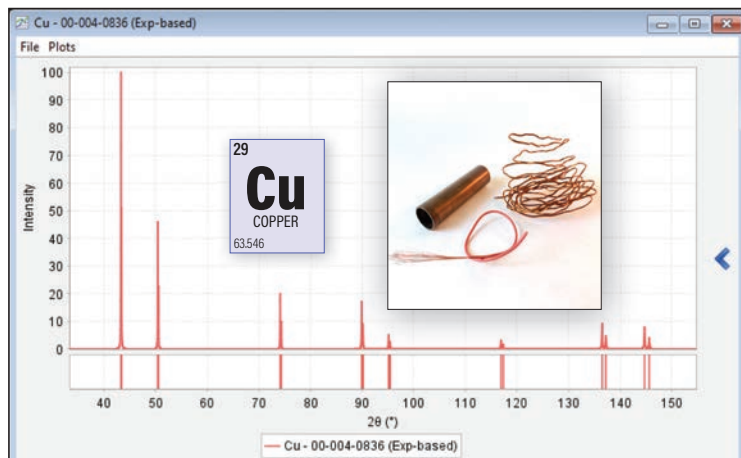
†USB Media will be discontinued 1 September 2027. Prepaid Packages and Multi-year pricing options are no longer available on USB.



PDF-4/Minerals 2027

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.

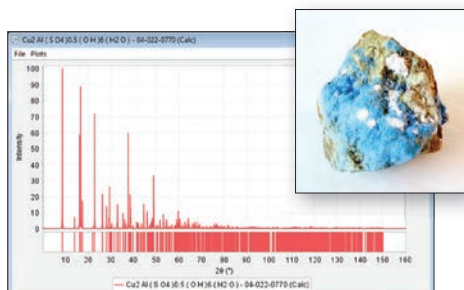


Copper - critical metal for today's powergrid and infrastructure

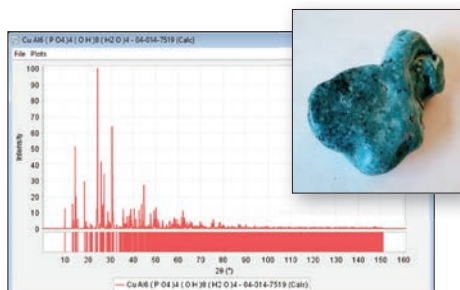
KEY POINTS

- Rapid phase identification, plus support for automated quantitative analyses
- Features 56,100+ entries, including 48,200+ entries with atomic coordinates
- Integrated data mining software
- All entries have digital patterns for use in total pattern analysis
- More than 44,400+ 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 85 searches
- One (1) year license serviced by subscription

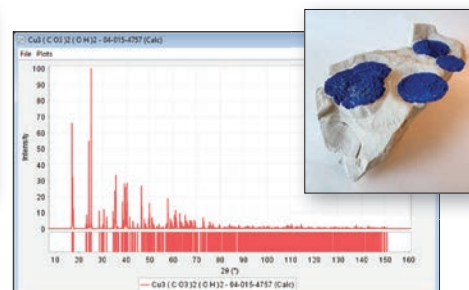
Copper Containing Phases



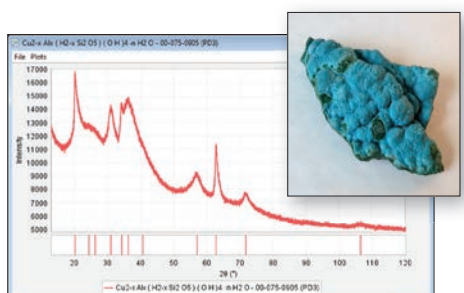
Cyanotrichite



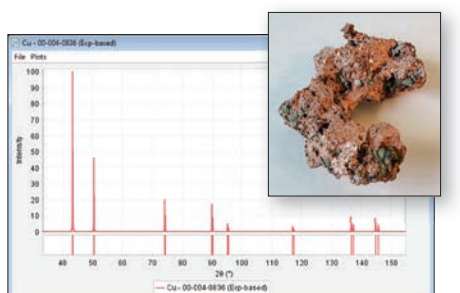
Turquoise



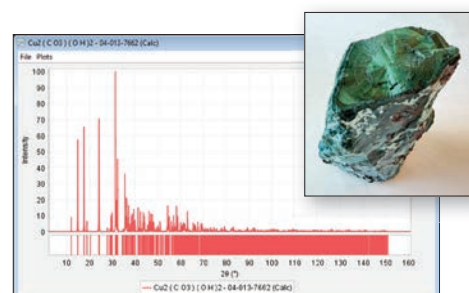
Azurite "suns"



Chrysocolla



Copper Ore



Malachite "stalagmite" with shattuckite and chrysocolla surface

PDF-4/Minerals Purchase Options

PDF-4/Minerals 2027	USB CODE	DOWNLOAD CODE	2026-2027 LIST \$	2026-2027 ACADEMIC \$
New - Single License	MN4NS	MN4NL	\$1,840	\$1,250
Renewal from 2026 to 2027	MN4RS	MN4RL	\$985	\$650

PDF-4/Minerals 2027 Multi-year License*

Renewal - 3 year license	Not Available†	MN4MYL3YR	\$2,955	\$1,950
Renewal - 5 year license	Not Available†	MN4MYL5YR	\$4,925	\$3,250

*Please see product policies on pages 18 and 19

†USB Media will be discontinued 1 September 2027. Prepaid Packages and Multi-year pricing options are no longer available on USB.



PDF-2 2027

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.

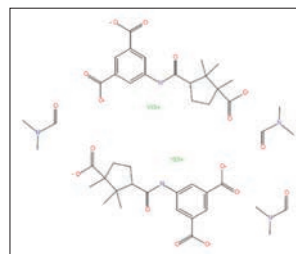


Ytterbium 5-((3s)-3-carboxy-2,2,3-trimethylcyclopentane-1-carboxamido)isophthalate dimethylformamide, $C_{45}H_{57}N_5O_{17}Yb_2$

KEY POINTS

- Features 378,600+ entries
- 273,400+ 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 55 display fields coupled with 76 searches
- Five (5) year license

2D Structure



Crystal Data

ICDD Calculated Parameters				
Space Group: P1 (1)				
Molecular Weight: 1286.06 g/mol				
Crystal Data				
a: 10.125 Å	α: 98.48°	Volume: 1204.49 Å³	c/a: 0.960	
b: 14.311 Å	β: 114.00°	Z: 1.00	a/b: 0.707	
c: 9.722 Å	γ: 103.42°		c/b: 0.679	
Reduced Cell				
a: 9.722 Å	α: 103.42°	Volume: 1204.49 Å³		
b: 10.125 Å	β: 98.48°			
c: 14.311 Å	γ: 114.00°			

PDF-2 Purchase Options

PDF-2 2027: Five (5) year License	USB CODE	DOWNLOAD CODE	2026-2027 LIST \$	2026-2027 ACADEMIC \$
New - Single License	C2NS	C2NL	\$9,395	\$6,265
Renewal - from 2026 to 2027	C2RS	C2RL	\$2,115	\$1,375
Renewal - from 2025 to 2027	C2RS-2	C2RL-2	\$4,230	\$2,750
Renewal - from 2024 to 2027	C2RS-3	C2RL-3	\$6,345	\$4,125
Renewal - from 2023 to 2027	C2RS-4	C2RL-4	\$8,460	\$5,500

PDF-2 2027: Ten (10) year License Package†

New Licenses (2027 and 2032)	Not Available†	PD2L10YR	\$18,790	\$12,530
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PDF-2 2027 Site License*

New - Master License	C2NS-M	C2NL-M	\$9,395	\$6,265
New - Additional licenses, each	C2NS-C	C2NL-C	\$2,115	\$1,375
Renewal - Yearly Master License	C2RS-M	C2RL-M	\$2,115	\$1,375
Renewal - Additional licenses, each	C2RS-C	C2RL-C	\$855	\$590

PDF-2 to PDF-5+ Conversion

PDF-2 2026 to PDF-5+ 2027	P25RSCONV	P25RLCONV	\$2,115	\$1,375
PDF-2 2025 to PDF-5+ 2027	P25RSCONV-2	P25RLCONV-2	\$4,230	\$2,750
PDF-2 2024 to PDF-5+ 2027	P25RSCONV-3	P25RLCONV-3	\$6,345	\$4,125
PDF-2 2023 to PDF-5+ 2027	P25RSCONV-4	P25RLCONV-4	\$8,460	\$5,500

*Please see product policies on pages 18 and 19

†USB Media will be discontinued 1 September 2027. Prepaid Packages and Multi-year pricing options are no longer available on USB.

Which ICDD Database is Right for You?

	PDF-5+ 2027	PDF-5+ Server Edition 2027	PDF-4/ Axiom 2027	PDF-4/ Minerals 2027	PDF-2 2027
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?	1,149,116	1,149,116	117,096	56,162	378,652
How many entries are new?	25,502	25,502	9,378	1,598	9,376
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 Requirements:

- 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 2027 – 5 GB
- PDF-5+ 2027 – 32 GB
- PDF-5+ Server Edition 2027 – 32 GB
- PDF-4/Minerals 2027 – 2 GB
- PDF-4/Axiom 2027 – 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.

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**





ICDD's FREE Webinar Series

Mastering the PDF Database and JADE Software

Learn the potential of the Powder Diffraction File and JADE from ICDD and Materials Data 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

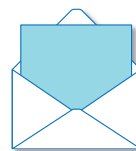
Data Mining in the Powder Diffraction File

Navigating a Powder Diffraction File Entry

and more

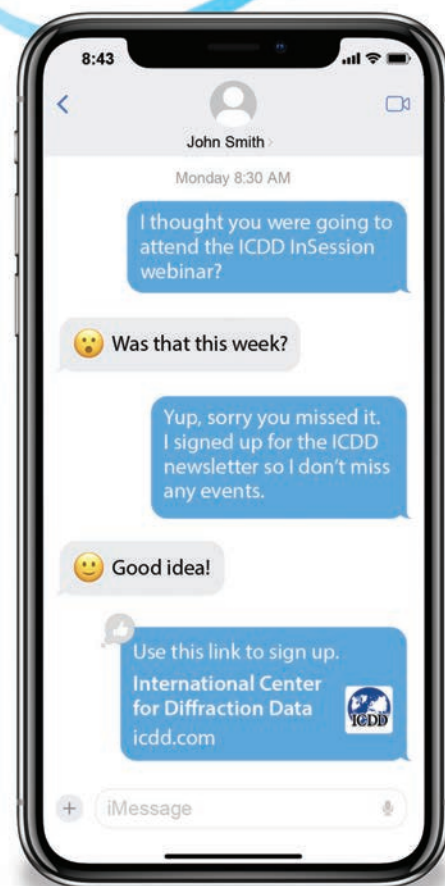


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Registration License Key: Registration is required upon installation. The license key is issued on the date of registration and will allow access to the database in accordance with the purchased product license term.

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

Database License Term: This is the amount of time available for access to the purchased database (see License terms).

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 2026, then your renewal will be due in May 2027.

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

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

PDF-5+ and PDF-4/Minerals: are licensed for one (1) year and include Slave+. ICDD offers a subscription service that provides automatic renewals for your PDF product(s). Prior to the expiration of your license, ICDD will automatically invoice and process your PDF-5+ and PDF-4/Minerals renewal based on your original invoice date. If you cannot take advantage of the automatic subscription, contact sales@icdd.com.

NOTE: When renewing your PDF license, ICDD recommends that you contact ICDD or your software vendor to determine your data analysis software requirements.

RELEASE 2027

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

Academic Pricing Policy

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.

Site License Policy

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.

ICDD multi-user server licenses are software products that include ICDD's JADE Pro and/or PDF-5+. The server licenses are scaled to serve high-volume research environments (5-concurrent user license minimum required) and is a floating, remotely accessible, and network shareable license.

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

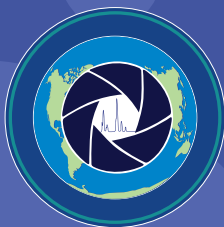
Customers with a single license may add additional licenses to create a site. To qualify for additional license pricing, the single license must be current. If necessary, customers may need to renew their single license to the current release, then add an additional license to create the site.



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

In response to customer requests, ICDD offers multi-year site licenses. The multi-year site license is offered as a convenience to our customers using site license pricing. This license is serviced by subscription and is available for a PDF-5+ site.

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 by download only.

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: Two 5-Year licenses (2027 and 2032) – Page 15

PDF-5+Scholar: 10-Year license for Academics – Page 15

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

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ICDD works with a global network of authorized distributors to provide ICDD products throughout the world. Our network includes equipment manufacturers, regional distributors, and licensed software developers who program commercial data analysis programs that work seamlessly with our databases.

www.icdd.com/distributors

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ICDD offers a variety of educational opportunities designed for both the new and experienced user. Our courses boast a high instructor-to-student ratio. Our experienced instructors have diverse scientific backgrounds, which give the attendees a blend of both theory and results-oriented practical experience. The week-long training of each course will set you up for success with a mix of lecture and hands-on sessions.

www.icdd.com/icdd-education

2027 EDUCATIONAL COURSES*

XRF Session I - Fundamentals of X-ray Fluorescence

XRF Session II - Advanced Methods in X-ray Fluorescence
Spring 2027

www.icdd.com/xrf

XRD Session I - Fundamentals of X-ray Powder Diffraction

XRD Session II - Advanced Methods in X-ray Powder Diffraction
Summer 2027

www.icdd.com/xrd

Rietveld Refinement & Indexing

Fall 2027

www.icdd.com/rietveld



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

CONFERENCES*

www.icdd.com → Conferences

76th Denver X-ray Conference

The Westin Westminster, Westminster, Colorado, USA
2-6 August 2027

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.

www.icdd.com/ppxrd

RESOURCES

www.icdd.com → Resources

Advances in X-ray Analysis

Register for free access to over 1,000 full publications from Advances in X-ray Analysis (AXA) - the proceedings of the Denver X-ray Conference (DXC). Access to AXA is provided by ICDD in cooperation with the authors and presenters of the DXC for the express purpose of educating the scientific community.

www.icdd.com/axa-allvolumes

Grant-in-Aid

Join ICDD's elite group of scientists who contribute experimental powder diffraction patterns to the Powder Diffraction File. One of our main objectives is to expand the range of reference materials by producing and cataloging high-quality diffraction patterns in our internationally renowned database, the Powder Diffraction File.

www.icdd.com/grant-in-aid

InSession Webinars

ICDD's InSession webinar series offers free training on the Powder Diffraction File and JADE software, presented by ICDD and Materials Data experts and developers. Each session covers practical topics — from phase identification and quantitative analysis to data mining, 2D pattern analysis, and materials characterization across industries including pharmaceuticals, geology, and ceramics. Past sessions are available on demand.

www.icdd.com/in-session

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Livermore, CA 94550 USA

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www.icdd.com → Products → Purchase Products → Order/Quote Form.

The Powder Diffraction File databases are licensed, copyrighted databases. In order to purchase an ICDD database license, an end-user must purchase the license directly through the ICDD or place an order directly through one of our authorized distributors (www.icdd.com/distributors).

E-commerce

- Secure transmission using SSL encryption
- Customer online order history
- Online order tracking
- Email order confirmation
- Email shipping notification
- Customer satisfaction

Pricing

The prices listed herein supersede all others previously published and are subject to change without notice. ICDD reserves the right to discontinue any product at its discretion. Visit our website at www.icdd.com or contact our Customer Service Department at sales@icdd.com for the most recent product information and pricing.

Return Policy

Products may be returned within 30 days from the invoice date for a full refund or credit (excluding shipping/handling). Products must be returned in original condition to qualify for a refund or credit. Registered products cannot be returned. Please complete a Return Merchandise Authorization (RMA) form to receive approval prior to returning product. Defective products will be replaced promptly but must be returned for testing.

Warranty Policy

Customers' sole remedy for any defective Licensed Product shall be replacement of the Licensed Product, which right must be exercised by written notice given within 30 days of purchase. Defective products will be replaced promptly but must be returned for testing.

Product warranty is on the system requirements 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.

Payment Terms

Wire transfers, credit cards (MasterCard, Visa, American Express), and checks in USD and drawn on USA banks are acceptable forms of payment. Letters of credit will not be accepted. Payment is due within 30 days from invoice date. Finance charges of 1.5% per month (annual percentage rate of 18%) may be applied to overdue balances.

Licensing

ICDD licenses the use of the Powder Diffraction File, associated software, and JADE software packages. Licensing for the Powder Diffraction File, associated software, and JADE software packages are provided via USB, USB dongle, or Download. ICDD's product licenses are nontransferable and intended for use on a single computer. Server licenses are available for use on multiple PCs. Please refer to the sales descriptions and product policies for further information on licensing.

Orders

Orders which include terms and conditions are reviewed prior to order acceptance. Once orders are accepted, they are processed on a first-in/first-out basis.

NOTE: Customers in Japan and South Korea, must order through an ICDD authorized distributor. www.icdd.com/distributors

Shipment

The ICDD ships via INCOTERM: EXW / EXWORKS

Import duties and all taxes are not included in pricing and are the sole responsibility of the customer. Shipment will be made by a commercial carrier chosen by ICDD. For your convenience, shipping charges will be added to all invoices. Shipments can be insured upon request; additional charges will apply.

ICDD Authorized Distributors

www.icdd.com → Products → Purchase Products → ICDD Authorized Distributors & Sales Partners
www.icdd.com/distributors

Return Merchandise Authorization (RMA)

www.icdd.com → Products → Purchase Products → ICDD Ordering Information → Return Policy → ICDD_RMA_form.pdf
www.icdd.com/assets/files/ICDD_RMA_form.pdf



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