

Features:

	PDF-4+ 2008 with DDView+	PDF-2 Release 2008 with DDView
Total entries	285,402	211,107
Inorganic entries	256,934	182,634
Organic entries	32,408	32,189
Entries with atomic coordinates	114,630	0
Search Classifications:		
All Names Search for compounds: plus nomenclature fields	✓	✓
Ambient/Non-ambient	✓	✓
ANX Structural Formula search (ICSD entries only)	✓	✓
Atomic Coordinates	✓	PDF-4*
Author's Cell Axial Ratio search	✓	✓
Bibliographic: Author, Journal, Title, Year, CAS No., Codens	✓	✓
Boolean operators can be mixed with Just/Only in Periodic Table	✓	✓
Cell/Volume: Author's, Crystal, Reduced (including ESD's)	✓	✓
Color	✓	✓
Comments	✓	✓
Composition Search: weight & atomic percentages	✓	✓
cross-references page with each entry display		
NIST/ICSD to LPF	✓	PDF-4*
Experimental to LPF	✓	PDF-4*
Alternate patterns from Primary & Primary to Alternate	✓	✓
Crystal (Symmetry Allowed)	✓	✓
Density: Calculated & Measured	✓	✓
Density: Structure-derived density for LPF entries	✓	PDF-4*
Search on any combination of Dmeas, Dcalc, and Dstruc	✓	✓
Empirical Formula	✓	✓
I/I _c	✓	✓
Integral Index	✓	PDF-4*
Lines: Long and Strong	✓	✓
LPF Prototype Structure search	✓	PDF-4*
Chemical Formula order	new	PDF-4*
Alphabetical order	new	PDF-4*
Melting Point	✓	✓
Mineral Classification	✓	✓
Mineral Name	✓	✓
Mineral subclasses: Non-ambient and Synthetic	✓	✓
Number of Elements	✓	✓
Organic Functional Group	✓	✓
Pearson Symbol Code	✓	✓
Periodic Table	✓	✓
Prototype Structure	✓	✓
Chemical Formula order	✓	PDF-4*
Alphabetical order	new	new
Quality Mark	✓	✓
"P" quality mark—LPF prototype structure assignment	✓	PDF-4*
All calculated pattern entries	✓	✓
R-factor	✓	✓
Reduced Cell:		
Cell Axis	✓	✓
Cell Volume	✓	✓
Smith-Snyder Figure of Merit (SS/FOM)	✓	✓
Space Groups:		
International Table SPG	✓	✓
Author-Defined SPG	✓	✓
Subfile	✓	✓
Zeolite Classification	✓	✓

* Available only in PDF-4+

Bolded items signify new features.

Display & Capabilities:

	PDF-4+ 2008 with DDView+	PDF-2 Release 2008 with DDView
2D structures for experimental organic entries	✓	PDF-4*
3D structures for LPF entries: unit cell views, atomic environments	✓	PDF-4*
Bond Distances/Angles display	✓	PDF-4*
Digitized patterns for experimental & calculated entries:	✓	PDF-4*
Calculated patterns: X-ray, electron and neutron	✓	PDF-4*
Automatic experimental data import for known file types	✓	✓
Experimental data background subtraction (Sonneveld-Visser algorithm)	✓	PDF-4*
Experimental data smoothing (Savitzky-Golay algorithm)	✓	PDF-4*
Experimental data peak finding (2nd derivative algorithm)	✓	PDF-4*
Displayed data can be copied onto the clipboard	✓	✓
Electron Backscattering Pattern (prototype)	✓	PDF-4*
Simulated Electron Diffraction Pattern (prototype)	✓	PDF-4*
Approximate sizes for intensities	new	PDF-4*
Graphing Capabilities:		
1/d x-axis units	✓	✓
Add/delete plots "on-the-fly"	✓	PDF-4*
Advanced custom importing:		
Save custom settings	✓	PDF-4*
Graph results (x-y plot, category plot, histogram)	✓	✓
Graph individual composition elements	new	PDF-4*
Particle Size profile function	✓	PDF-4*
Debye-Scherrer geometry type	✓	PDF-4*
Graph can be panned when zoomed	✓	PDF-4*
Enhanced plot settings	✓	PDF-4*
2-theta correction	✓	PDF-4*
Background	✓	PDF-4*
Change color of line	✓	PDF-4*
Scale intensities to highest peak	✓	PDF-4*
LPF Prototype Structure search	✓	PDF-4*
"Not" operator available for every search	✓	✓
PD3 Patterns: Raw experimental data	new	PDF-4*
PDF Entry Display:		
3 strongest spacings in bold	✓	✓
Atomic environment picture can be viewed on Structure tab of PDF Entry	✓	PDF-4*
Crystal (Symmetry Allowed) – X data field	✓	✓
Estimated Standard Deviation (ESD) available for most numeric searches	✓	✓
Footnotes for d-spacings	new	new
PDF card tab selections "in sync" when viewing multiple cards	✓	✓
Report options: long/short, hide empty data	✓	✓
User Comments Report – view all user comments	✓	✓
User-editable Isotropic Temperature Factors	✓	PDF-4*
View up to 3 intensities at one time: fixed slit, variable, & integrated	✓	PDF-4*
Search Results Capabilities:		
Calculations for mean, median, and ESD	✓	✓
Ability to add any field directly to results from menu option	✓	✓
Flexible formulae sorting in search results	✓	✓
Open multiple PDF Cards at once	✓	✓
Database fields for display in search results:		
Ambient/Non-ambient	new	PDF-4*
Crystal cell (full coordinates)	✓	PDF-4*
Crystal cell volume, Author's cell volume	✓	PDF-4*
Has Atomic Coordinates	new	PDF-4*
Reduced cell (full coordinates)	✓	PDF-4*
Smith-Snyder Figure of Merit (SS/FOM)	✓	PDF-4*
Total Pattern Analysis: Integral Index calculates/assigns a value comparing experimental data to result form diffraction patterns	✓	PDF-4*

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