

## **CROSS REFERENCES IN THE POWDER DIFFRACTION FILE™**

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In the recent years, emphasis has been given to cross referencing related patterns in the Powder Diffraction File keeping in view the growing number of entries. The majority of the cross referencing is implemented by an internally developed automated procedure that identifies similar patterns based on chemistry and structural features. Cross referencing to entries with atomic coordinates is advantageous in deriving starting models for performing quantitative phase analysis by the Rietveld method. The cross referenced entries may help by supplementing missing information in the card. All these cross references are stored in a relational database table to facilitate search/match programs to make best use of them.

Different types of cross references and their population in the Powder Diffraction File will be presented in detail.