

SPECTRAL EVOLUTION

Nickel Exploration

SPECTRAL EVOLUTION's oreXpress, oreXplorer and oreXpert with EZ-ID software for mineral identification are well-suited for nickel exploration. These rugged, field spectrometers can be used in field mapping and mineral identification for many different nickel deposit types, including nickel sulfide and lateritic ore. In both types of deposit, these instruments can help geologists identify pathfinder minerals that could lead to economically viable deposits.

For nickel sulfide deposits in mafic and ultramafic igneous rocks:

- ◆ Pentlandite
- ◆ Pyrrhotite
- ◆ Chalcopyrite
- ◆ Pyrite

For laterites, the pathfinder minerals can include:

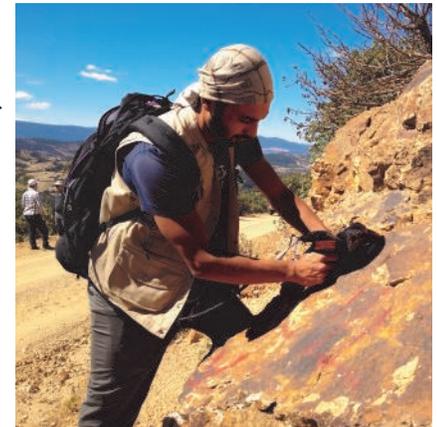
- ◆ Nickeliferous limonite
- ◆ Goethite
- ◆ Smectite
- ◆ Nontronite
- ◆ Garnierite

Using EZ-ID with the USGS, SpecMIN™ or GeoSPEC libraries, the software quickly provides accurate matching of an unknown target with a known mineral spectra. With an oreXpress, oreXplorer or oreXpert spectrometer and EZ-ID a geologist can identify minerals indicating gold in real-time, in the field.

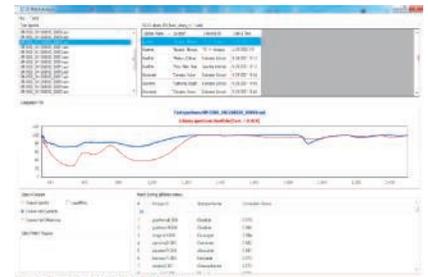
Benefits include:

- ◆ Quickly collect a lot of scans
- ◆ Cover more ground in less time for better mapping
- ◆ Collect more accurate data for a more complete picture of the area you are exploring
- ◆ Get results immediately instead of waiting for lab analysis
- ◆ Drill fewer holes with better results
- ◆ Speed-up core shack scanning and logging, accurately identify samples of interest, and save on assay costs

In addition to matching against a known library, EZ-ID with the Custom Library Builder module, allows you to quickly scan and build your own spectral library or add new samples to an existing library.



oreXpress, oreXplorer and oreXpert spectrometers are ideal for single-user field exploration in nickel mining.



EZ-ID software identifies minerals in real-time by matching your target spectra against a known spectral library such as the USGS, SpecMIN and GeoSPEC libraries.

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