

The Core Advantage...

XPS' Core Advantage is a rapid mineralogical characterisation tool which provides valuable data directly from the surface of cut drill core samples. With the use of QEMSCAN (Quantitative Evaluation of Materials by Scanning Electron Microscope) your drill core is measured as presented with minimal sample preparation. Minimal preparation ensures fast turnaround of results and cost effective analyses.

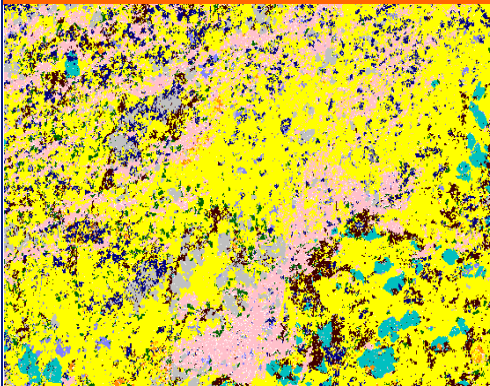
Drill core mineralogy can help support strategic decisions early in a program to ensure focused exploration based on key mineralogical factors including modal abundances, metal ratios, grade and textures.

As an independent consulting service, the Xstrata Process Support Centre has two QEMSCAN's which offer core measurements to the mineral industry.

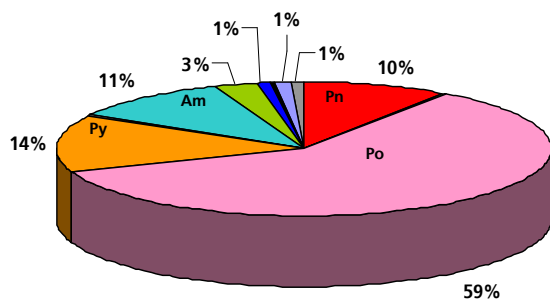
Practical Applications

Rapid drill core characterisation can be used in the following applications:

- Greenfields Exploration
- Lithotyping and indicator minerals
- Mapping alteration assemblages
- Metallurgical performance indicators
- Calibration of drill core logging for grade estimations



Sample	Name	Core 1
	Po:Pn	6.2
	Ni Tenor	3.62
Elemental Mass	Cu (QEMSCAN)	0.1
	Fe (QEMSCAN)	48.8
	Ni (QEMSCAN)	3.1
	S (QEMSCAN)	33.0
Mineral Mass	Pentlandite	9.6
	Chalcopyrite	0.3
	Pyrrhotite	59.6
	Pyrite	13.6
	Quartz	0.1
	Amphibole	10.8
	Epidote	2.9
	Pyroxene	0.8
	Magnetite	0.4
	Calcite	0.9
	Other	0.9



Key Advantages:

The following are key deliverables provided by QEMSCAN for Core Advantage analyses:

- Modal mineralogy
- Estimated elemental department by mineral
- Colour images of core textures
- Estimated assays calculated from mineral compositions
- Rapid turnaround



For further information on XPS Core Advantage services please contact:

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