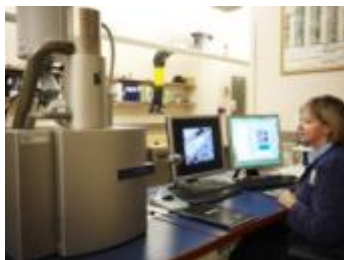


Metallography

- Optical & stereo microscopy
- Scanning electron microscopy (SEM)
- Energy dispersive x-ray spectroscopy (EDS)
- X-ray diffraction (XRD)



The XPS Materials Technology Laboratory, located at the XPS center in the town of Falconbridge, is the only materials testing and failure analysis laboratory in Northern Ontario.

Mechanical Testing

- Micro & Macro hardness
- Impact
- Tensile



The laboratory is equipped with metallography, mechanical, corrosion and wear testing facilities and provides services to mining operations worldwide.

Corrosion Testing

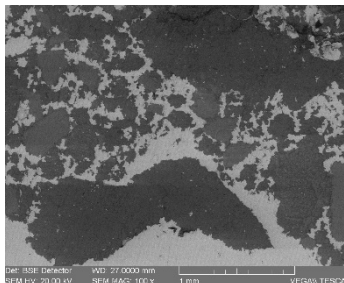
- Long term exposure immersion tests
- Electrochemical tests
 - Dynamic and cyclic polarization
 - Linear polarization
 - Galvanostatic and potentiostatic
 - Impedance spectroscopy



The main focus of the laboratory group is failure prevention and improvement of equipment life and reliability. Materials Testing are used to support materials selection in the design stage of capital projects and for quality control during material's procurement, equipment fabrication and construction. Failure analysis are employed to determine the root causes of failures and to implement mitigation alternatives for failure prevention.

Wear Testing

- ASTM G65 Dry-sand rubber wheel abrasion
- ASTM G105 Wet-sand rubber wheel abrasion
- ASTM B611 Abrasive wear resistance of cemented carbides
- Slurry abrasivity



Customers range from mining operations, steel industry, petrochemical, pulp & paper and bio-fuel industry to companies involved in manufacturing, engineering and constructions services.

Other capabilities

- Portable hardness
- Portable chemical analyzer for PMI
- TGA / DSC
- Coatings @ linings spark tester
- Coating thickness gauge
- Flaw detector

Contact Us:

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