

## MINING

Toxic gases and vapours from machinery and underground environments are in the air. How can you tell if you're safe?



## GASTEC DOES THAT

Detect hazardous gases in the air so that you're prepared.

### Situation

Airflow/Air Monitoring

### Problem

Used in underground mining to understand and monitor direction of airflow

### Gastec Solution

- IG6500 Gastec Smoke Test Kit
- IG6501 tubes can be used to show direction of airflow from mine ventilation

Machinery/Mobile Equipment Maintenance

During equipment maintenance intervals, gas levels of CO, NO<sub>x</sub> (NO+NO<sub>2</sub>), SO<sub>2</sub>, CO<sub>2</sub> that are emitted from vehicle exhaust need to be measured

- IG6345B hot probe and IG6345A hot probe holder that allows the hot exhaust sample to cool prior to being drawn through the tube
- IG1L and IG1M carbon monoxide tubes
- IG2L, IG2LC carbon dioxide tubes
- IG5La and IG5L sulphur dioxide tubes
- IG10, IG11L, IG11S, IG11HA nitrogen oxides tubes

Blast Gas Measurement

Explosives used in mining produce hazardous gases including carbon monoxide CO, nitrogen monoxide NO and nitrogen dioxide NO<sub>2</sub>

- IG1L, IG1M, IG1H carbon monoxide tubes
- IG10 nitrogen monoxide tube
- IG9L, IG10 nitrogen dioxide tubes

Industrial Hygiene

Workers are exposed to various gases and vapours throughout the day which need to be measured

- Passive Dosi-Tubes can be used to measure personal TWA (time weighted average) exposures. These tubes include:
- IG1D & IG1DL tubes for carbon monoxide
  - IG2D tube for carbon dioxide
  - IG12D tube for hydrogen cyanide
  - IG9D and IG9DL tubes for nitrogen dioxide
  - IG5D and IG5DH tubes for sulfur dioxide

Refuge Station Monitoring

In the case of emergency use of Refuge Stations, there must be acceptable levels of CO<sub>2</sub> and Oxygen

- IG2LL and IG2L carbon dioxide tubes
- IG31B oxygen tube

