BERYLLIUM ANALYSIS

Advanced Testing for Bulk, Surface Wipe, and Air Samples

Unique Analytical Sensitivity

Columbia Basin Analytical Laboratories, RJ Lee Group's Pasco, Wa. division, is one of the only commercial labs in the country that offers digestion technology specifically aimed at the dissolution of a particularly dangerous, persistent, and difficult analyte: beryllium – particularly, in the form of High Fired Beryllium Oxide (BeO). Our unique accredited process for industrial hygiene analysis exhibits measurable dissolution of BeO versus the traditional digestion techniques that only provide ~70% recovery on average. We perform analysis of bulk samples, surface wipe samples, and air samples, all with detection limits more than 10 times lower than required by OSHA regulations.

In addition to our beryllium IH analysis, we are the only commercial laboratory to offer a state-of-the-art beryllium analysis technique known as Beryllium Metals Ratio Analysis (BeMR or "beamer"), which differentiates between naturally occurring mineral beryllium in windblown dust (considered innocuous to human health) and extremely hazardous and harmful "man-made" forms of beryllium. Proprietary digestion, analytical, and interpretive methodology provides a robust and sensitive analysis with detection limits a number of times at or below OSHA exposure limits, while simultaneously identifying the nature of the contamination. The ability to differentiate harmful from inert forms enables IH professionals to better protect their employees and provides an opportunity to reduce wasted time and money spent on unnecessary decontamination.

Helping Companies Adhere to DOE Guidelines

- Surface sampling (ghost wipes) that measures to 0.005µg/wipe - 10 Day TAT
- Bulk sample measurements to 0.01µg/kg - 10-day TAT
- MCE Filters for Air Monitoring
  - 0.003µg/m^3 - 5 Day TAT (Monroeville, PA)
  - 0.003µg/filter - 5-10 Day TAT (Pasco, WA)
- GHS-XRC(M) Services (Monroeville, PA)
  - Bulk Materials Characterization
  - HazCom 2012 SDS Preparation

Methods & Performance

- OSHA/NIOSH Methods
  - NIOSH 7300/7303
  - NIOSH 7704
  - ASTM D7439
  - OSHA 125G/206
- Monroeville Methods
  - NIOSH 7300-Mod (HNO_3)
  - NIOSH 7303-Mod (HNO_3, ≈)
- Pasco Methods
  - NIOSH 7303-MOD (HNO_3, H_2SO_4)

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DELIVERING SCIENTIFIC RESOLUTION