

## Real-Time Dust Monitoring Solutions from TSI®

Meeting the real-time challenges of the OSHA 's respirable silica standard

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## Real-Time Dust Monitoring and Compliance to OSHA's Silica Standard

In OSHA's General Industry and Construction Respirable Crystalline Silica Standards (RCS Standard) employers must conduct monitoring to assess each employee's eighthour, time-weighted average (TWA) exposure to respirable crystalline silica dust.

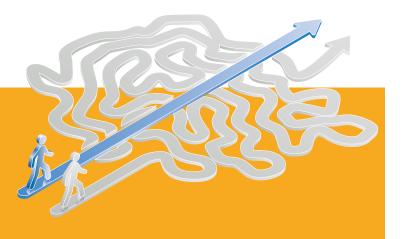
The Permissible Exposure Limit (PEL) along with the "Action Level", present challenges for companies to monitor, control and reduce worker exposure to respirable silica.

Direct reading, real-time instruments from TSI® will allow you to easily measure respirable silica dust for employee exposure assessments, validating corrective actions and performing repetitive sampling in real-time while saving time and reducing costs.

**OSHA Standard For Respirable Silica PEL** = 50µg/m<sup>3</sup> at 8hr. TWA **Action Level** = 25µg/m<sup>3</sup> at 8hr. TWA

#### Navigating the OSHA Silica Standard— a Faster Path to Compliance

From Table-1 compliance through the Alternative Exposure Control Methods, TSI<sup>®</sup> real-time monitoring technology provides a faster pathway to compliance, cost savings and improved safety along the way. Gain confidence in your gravimetric lab results before taking the final samples.



## Measuring Respirable Silica Dust in Real-Time

Within OSHA's standard companies and facilities may have to monitor respirable silica frequently to reach and maintain compliance while protecting employees from silica exposure.

Traditional gravimetric sampling is required for reference samples, however lab processing takes time, is costly and does not provide exposure data needed to make fast corrective actions.

TSI® manufactures a broad line of real-time dust measurement instruments that can help reach and maintain compliance to the silica standard in less time and for less cost.

#### Real-Time Dust Monitoring Provides Real-Time Advantages:



- Reduced Set-up and Sample Collection Times: Real-time dust measurements can collect 'representative' samples in far less time than traditional gravimetric sampling.
- Fast Corrective Action: Achieve in Hours or Days What typically takes weeks or even months to complete using only gravimetric sampling. Real-time monitoring provides instant and actionable exposure data.



- Real-Time Sampling Allows for
  Frequent Repetitive Monitoring
  Repeated testing required by several sections
  of the OSHA standard.
- Real-Time Data-logging

Provides employers with an exposure 'data trail' of employee exposure levels including alarm conditions for post-test review and pinpoint analysis of exposure during an entire work shift.



 Instant Alerts and Exposure Data Real-Time monitoring provides immediate results to make decisions, take corrective actions and validate those actions so further adjustments can be made.

• Reduced Worker Exposures Keeps workers safe through accurate, immediate feedback of workplace conditions while saving your company money.

#### Sampling Method Comparison

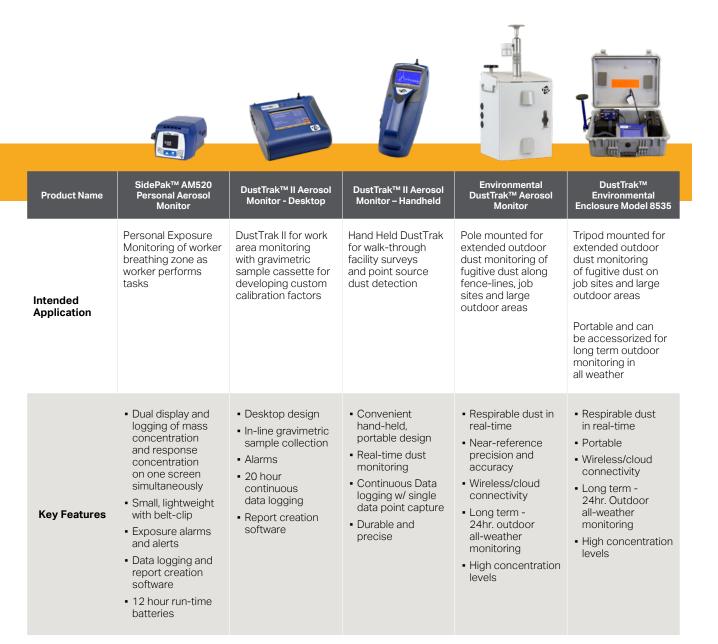
The diagram below illustrates the potential time and cost savings through real-time monitoring. More cycles maybe required to make and validate corrective actions before compliance of the new OSHA standard is met.



\* TSI Estimates, when using consultants

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Meeting The Real-Time Challenges Of The Osha Silica Standard



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