



# OSHA Silica Rule Update

## Key Provisions

- Reduces the permissible exposure limit (PEL) for respirable crystalline silica to 50 micrograms per cubic meter of air ( $50 \mu\text{g}/\text{m}^3$ ), averaged over an 8-hour shift.
- Implements an Action Level of airborne respirable crystalline silica of 25 micrograms per cubic meter of air ( $25 \mu\text{g}/\text{m}^3$ ), averaged over an 8-hour shift.
- Requires employers to institute engineering controls where feasible, such as exhaust ventilation or wet cutting.
- Requires employers to provide respiratory protection until engineering controls are instituted, or not feasible, and to control access to areas where exposures might exceed the PEL.
- Requires employers to provide medical exams to monitor highly exposed workers and gives them information about their lung health.

## Industries and Operations in Which Exposure to Crystalline Silica Can Occur

- Construction
- Demolition
- Glass products
- Pottery products
- Structural clay product
- Concrete products

## Industries Affected

Construction, Hydraulic Fracturing, Maritime, and General Industry

## ***EMSL Analytical, Inc. is accredited to ANS/ISO/IEC Standard 17025:2005 with respect to Crystalline Silica through the American Industrial Hygiene Association (AIHA)***

- Rigorous Quality Control (QC) program to provide accurate and defensible data
- Respirable Dust/Silica Sampling Kits available at no additional charge
- Multiple accredited EMSL Analytical, Inc. laboratories and XRD instruments for unmatched silica capacity and geographic coverage
- Two CIH's on staff to assist with silica sampling, analytical results interpretation and OSHA compliance questions





EMSL Analytical, Inc. provides independent crystalline silica analysis by NIOSH 7500 and OSHA ID-142 using X-Ray Diffraction (XRD). Our three AIHA-LAP, LLC accredited laboratories located in Cinnaminson, NJ, Indianapolis, IN, and Huntington Beach, CA meet the current OSHA Appendix A of 29 CFR 1910.1053 (General Industry and Marine) and 29 CFR 1926.1153 (Construction) guidelines for silica analysis.

## EMSL Silica Testing Lab Locations

### EMSL - East Coast

200 Route 130 North  
Cinnaminson, NJ 08077  
AIHA-LAP, LLC  
Industrial Hygiene (IHLAP)  
**Laboratory ID: 100194**  
XRD: NIOSH 7500M and  
OSHA ID-142M  
Gravimetric: NIOSH 0500  
and NIOSH 0600



### EMSL - Midwest

6340 CastlePlace Drive  
Indianapolis, IN 46250  
AIHA-LAP, LLC  
Industrial Hygiene (IHLAP)  
**Laboratory ID: 157245**  
XRD: NIOSH 7500M and  
OSHA ID-142  
Gravimetric: NIOSH 0500  
and NIOSH 0600



### EMSL/LA Testing - West Coast

5431 Industrial Drive  
Huntington Beach, CA 92649  
AIHA-LAP, LLC  
Industrial Hygiene (IHLAP)  
**Laboratory ID: 101650**  
XRD: NIOSH 7500 and  
OSHA ID-142  
Gravimetric: NIOSH 0500  
and NIOSH 0600



## Sampling Recommendations

Samples	RL (ug)	Action Level (ug/m <sup>3</sup> )	OSHA PEL (ug/m <sup>3</sup> )	Recommended Volumes	
				To Achieve PEL	To Achieve Action Level
Alpha Quartz	5	25	50	300L	600L
Cristobalite	10	25	50	300L	600L
Tridymite	10	25	50	300L	600L
All 3 Species	10	25	50	300L	600L

## EMSL Sampling Kits

- EMSL Parallel-Particle Impactor (PPI) Kit
- Available Flow Rates: 2LPM, 4LPM, 8LPM
- Pump/ Charger, Tubing and Clip, Rotameter, PPI  
\*Impactor purchased separately\*
- EMSL Cyclone Sampling Kit
- Available Flow Rate: 2.5LPM
- Pump/Charger, Tubing and Clip, Rotameter, Aluminum Cyclone \*Nylon Cyclones Also Available\*

## EMSL Impactors and Media

- Disposable PPI Impactor (2, 4, 8 LPM) with Pre-Weighted Filter
- Disposable PPI Impactor (2, 4, 8 LPM) with Non Pre-Weighted Filter<sup>1</sup>
- Also Available: Reusable PPI Impactors
- Gravimetric Pre-Weighted PVC Cassette
- Non Pre-Weighted PVC Cassette

<sup>1</sup>Non Pre-Weighted filters prohibit reporting of Respirable Dust. If respirable dust is required, a Pre-Weighted Filter MUST be used.

**RL** = Reporting Limit

**PEL** = Permissible Exposure Limit

EMSL's Services are subject to Terms and Conditions noted in EMSL's T&C section located in the Lab Services Guide.

## EMSL Technical Contacts

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