COMPLIANCE OVERVIEW

Provided by Reseco Insurance Advisors

OSHA Rule: Respirable Crystalline Silica

On March 25, 2016, the Occupational Safety and Health Administration (OSHA) issued a <u>final rule</u> regarding respirable crystalline silica. Under this rule, employers are subject to new standards for protecting workers. The rule became effective on June 23, 2016. However, employers in the construction industry had until Sept. 23, 2017, to comply with the rule. Employers in the maritime and general industries had until June 23, 2018, to comply.

The rule includes standards that dramatically reduced the permissible exposure limit (PEL) for respirable crystalline silica to 50 micrograms per cubic meter of air (50 μ g/m³). The rule also requires employers to implement specific measures to protect workers.

This Compliance Overview presents a high-level summary of OSHA's final rule regarding respirable crystalline silica.

LINKS AND RESOURCES

- Final rule on occupational exposure to respirable crystalline silica
- OSHA FAQs on the respirable crystalline silica final rule
- OSHA crystalline silica webpage; CDC silica webpage
- Methods of sample analysis for <u>construction</u>, <u>general and</u> <u>maritime</u> industries
- Medical surveillance guidelines for <u>construction</u>, <u>general and</u> <u>maritime</u> industries

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HIGHLIGHTS

SILICA FINAL RULE

- The final rule establishes a new permissible exposure limit for respirable crystalline silica.
- Employers must implement specific measures to protect workers.
- The intent of the rule is to reduce the risk of diseases caused by exposure to respirable crystalline silica.

IMPORTANT DATES

- Employers in the construction industry must be in compliance as of comply as of Sept. 23, 2017.
- Employers in the general and maritime industries must be in compliance with most provisions as of June 23, 2018.
- Employers in the general and maritime industries must offer medical surveillance to certain employees by June 23, 2020.



BACKGROUND

Crystalline silica (silica) is a common mineral found in materials like sand, concrete, stone and mortar. Silica becomes hazardous when it is reduced to a dust and released into the air where it can be inhaled (called respirable silica). This commonly occurs in operations that involve cutting, sawing, drilling and crushing materials that contain silica. Operations in which sand products are used, such as glass manufacturing, metal casting and sand blasting, also tend to generate respirable silica. When silica dust particles are inhaled, they can penetrate deep into the lungs and cause disabling and sometimes fatal diseases, including silicosis, lung cancer, chronic obstructive pulmonary disorder and kidney disease.

OSHA first set PELs for respirable silica in 1971, allowing 100 μ g/m3 for general industry and 250 μ g/m3 for construction and shipyards. Since then, numerous advanced scientific studies determined that much lower levels of silica exposure can causes serious health effects. After reviewing the scientific evidence, OSHA determined that even though significant health risks remain at the 50 μ g/m3 PEL, this is the lowest level that most affected operations can reasonably achieve through the use of engineering controls and work practices.

COVERED EMPLOYERS

In its final rule, OSHA issued two separate standards for protecting workers from exposure to respirable crystalline silica, one for the construction industry and another for the general and maritime industries.

Both standards are similar and provide comparable protections for workers, but OSHA issued them separately to account for differences in work activities, anticipated exposure levels and other conditions unique to each industry. Although exposure to respirable crystalline silica has also been documented in the agricultural sector, OSHA did not issue regulations for this industry.

GENERAL REQUIREMENTS FOR COVERED EMPLOYERS

Under both standards, employers subject to OSHA's final rule must:

- Implement engineering and work-practice control measures;
- Establish and implement a written exposure plan;
- Restrict housekeeping practices that expose workers to silica;
- Offer medical exams to workers who are exposed to silica;
- Train workers on operations that result in silica exposure and on ways to limit exposure; and
- Keep records of workers' silica exposure and medical exams.

Employers in the construction industry must also designate a **competent person** to implement their written exposure control plans.

Exposure Control Requirements

To comply with exposure control requirements, general industry and maritime employers must measure respirable silica levels in the workplace any time they may possibly be at or above 25 μ g/m3 (action level). They must also ensure that employees are not exposed to levels above 50 μ g/m3 by limiting access to areas with high levels, using dust control measures (such as wetting and ventilation), and providing workers with respirators.

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Construction employers have the option of either using those same methods or following specific dust-control methods that are outlined in <u>Table 1</u> of OSHA's final rule. Table 1 provides a list of common construction tasks and specific actions construction employers can take to protect workers who perform each task.

PLIANCE OVER

Written Exposure Plan

The final rule allows employers to tailor their written exposure control plans to their particular worksites. Minimum requirements include a description of all tasks that workers may have to do that could expose them to respirable silica and a description of the employer's methods for protecting workers, including procedures used to restrict workers' access to potential high-exposure areas.

Construction employers must also designate an individual who is capable of identifying existing and foreseeable silica hazards in the workplace and who has authorization to take prompt corrective measures to eliminate or minimize them.

Housekeeping

If housekeeping practices may expose workers to respirable silica, employers must use any feasible alternative as a means of reducing or eliminating the exposure risk.

Medical Surveillance

Employers must offer medical exams to workers who may be exposed to respirable silica levels of 25 μ g/m3 or more for 30 or more days per year. The exams must be offered every three years and must include chest X-rays and lung function tests.

Compliance Schedule

Each standard includes a compliance schedule for covered employers. The table below provides an overview of the relevant deadlines.

Industry	Deadline	Exceptions
General and Maritime	June 23, 2018	 Medical surveillance must be offered to workers who will be exposed to 25 µg/m³ or more of crystalline silica for 30 or more days a year starting on June 23, 2020; and Hydraulic fracturing operations must implement engineering controls by June 23, 2021.
Construction	Sept. 23, 2017	• Laboratory evaluation sample requirements begin on June 23, 2018.

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