Complying with OSHA's Respirable Crystalline Silica Standard By: Jason Griffin, CAM Director of Education & Safety Services

Resources



Guide

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OSHA's Crystalline Sil Construction	lica Rule:
OSHA is issuing two standards to protect crystalline silica—ene for construction, a maritime—in order to allow employers to in their workplaces.	t workers from exposure to respirable and the other for general industry and tailor solutions to the specific condition
Who is affected by the construction standard? About two million construction vectors an expessed to requirable or vitaline sites in over 66,000 enclosures. OSHA constrains that mere than M0,000 of these vectors are expended to the million of the sectors are expended to	The construction standard does not apply where suppasses will create how under any foreseable conditions; for example, when only performing tasks such as mixing mentar; peuring concrete feeters, sist bromdation and foundation walk; and removing concrete formwork.
exposure limit (PEL). Exposure to respirable crystalline silica can	What does the standard require? The standard requires employers to limit worker exposures to respirable crystalline allica and to
texes anisats, say latitud, over reportery delay common construction tasks such as using macrony saws, globacs, olital, suchammers and handheid powered chipping teols: operating values mounted delilog ing milling operating cashing machines and using hanavy equipment for demolifice or certain other tasks.	take other steps to protect version. The standard provides finishis alternatives, especially used if for small enclosure. Enclosure can obtar use a control method laid out in Take the of the construction standard, or they can measure workers' appoars to silica and independently decide which dust controls work best to limit exposures to the FL in their enclosure.
	Regardless of which exposure control method is used, all construction employers covered by the standard are required to:
	 Catalish and ingelevener a weltere separate somed galar host biomotis saids and in horder exposus and methods used to protect contexp- lectating processes to soreid assess to soreit areas where high exposure may access. Designate a sequesterol parce on implement the writers exposure control jain. Reside haveskeping practices that exposure workens to sitilar waters haushts alternarizes are available. Ofter medical access—including sheat X-rays and Lung location state—when there years for and Lung location state—when the years for



In June of 2016, OSHA passed regulation that was designed to protect workers from over exposure to respirable crystalline silica. Many questions have arisen as to how construction companies are to comply with the new standard which reduces the permissible exposure limit (PEL) to one fifth of the previous limit of 250 μ g/m³. Since the release of the standard, many new resources have been developed to assist employers with compliance. OSHA has released a fact sheet, a frequently asked questions (FAQ) guide, and the "Small Entity Compliance Guide for the Respirable Crystalline Silica Standard for Construction."

Upon review of the compliance guide, employers may find that compliance with the new standard may not be as difficult as originally anticipated. The compliance guide breaks the standard down into plain language and outlines the options that employers have under the regulation as described below. Essentially, employers have two options, comply fully with the protective measures outlined Table 1 of the standard or develop alternative exposure control methods. Employers choosing to completely implement the control measures in Table 1 do not have to worry about doing crystalline silica exposure assessments as the Table was designed to limit exposure utilizing feasible engineering controls and respiratory protection when engineering controls alone are not sufficient to control the hazards. Table 1 identifies 18 common tasks that result in high levels of respirable crystalline silica exposure and addresses the measures necessary to reduce that exposure to below 50 μ g/m³ for the identified tasks. Employers who do not comply with Table 1 must assess employee exposure and develop measures for to prevent exposures beyond the PEL of 50 μ g/m³.

To assist with understanding what is required under the standard, the following excerpt was take directly from OSHA's "Small Entity Compliance Guide." When looking for the answer to question 1 below, if you are engaged in any of the tasks listed in Table 1, then the answer to this question is "Yes." If you are not engaged in any of the tasks identified in Table 1 and are only rarely engaged in tasks that generate silica dust then the standard may not apply. The fact sheet lists some tasks that would not result in exposures under the standard.

Roadmap for Meeting the Requirements of the Respirable Crystalline Silica Standard

1. Determine if the silica standard applies to your employees.

Could employees be exposed to respirable crystalline silica at or above 25 µg/m³ as an 8-hour TWA under any foreseeable conditions, including the failure of engineering controls, while performing construction activities?

No: No further action is required under the silica standard. Yes: Choose to comply with the standard using either the:

- · Specified exposure control methods in Table 1, or
- · The alternative methods of compliance



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Supplemental Programs

Regardless of which option an employer takes under the standard there are some mandatory items that all employers must address. The chart below, which is a continuation of the excerpt from the compliance guide, shows what additional items must be addressed for compliance with the regulation.

Determine what additional requirements you must meet under the standard, based on the compliance method you are following.

	Must the Employer Follow this Requirement?	
Requirement	If Fully and Properly Implementing Table 1	If Following Alternative Exposure Controls
PEL	No	Yes
Exposure Assessment	Νο	Yes, when exposures are reasonably expected to be above the action level.
Methods of Compliance	No	Yes
Respiratory Protection	Yes, if respirator use is required by Table 1	Yes, if respirator use is required to reduce exposures to the PEL
Housekeeping	Yes	Yes
Written Exposure Control Plan	Yes	Yes
Medical surveillance	Yes, for employees who must wear a respirator under the silica standard for 30 or more days a year.	
Communication of Hazards	Yes	Yes
Recordkeeping	Yes, for any employees who are getting medical examinations	Yes, for exposure assessments and for any employees who are getting medical examinations

The compliance guide addresses each of the required elements above and also gives guidance on how to fully implement the control measures for each of the 18 tasks identified in Table 1.

In addition to the compliance guide, the Center for Construction Research and Training (CPWR), has also developed an online tool to assist employers with the development of a basic silica exposure control plan that they can then further develop to meet their business needs. It is also important to understand that some tasks identified in Table 1 or if developing alternative exposure control methods, that respiratory protection will be required under the standard. Once respiratory protection is required, employers must also develop and implement a respiratory protection program.



MIOSHA Compliant Sample Respiratory Protection Program



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