



NAFECO

Industrial Safety Options (ISO)

November, 2018

S.A.F.E.T.Y. NOTES

Solutions, Answers, Facts and Explanations To You

November 2018 S.A.F.E.T.Y. NOTES looks at the updated Respiratory Silica standard and how you can comply.

OSHA 1920(b) and 1926.1153 establishes requirements for the identification and safety of employees that may be exposed to Respirable Crystalline Silica (RCS). How do you protect your employees and your company against something that is airborne and often too small to see?

WHAT IS RESPIRATORY CRYSTALLINE SILICA?

Crystalline silica is a mineral found in naturally occurring and man-made materials like stone, sand or artificial stone countertops. Typically, the particle is at least 100 times smaller than sand on beaches and occurs during the production of products like glass, ceramic, brick, concrete and is also present in operations that use abrasive blasting in foundry work, building maintenance and hydraulic fracturing. It can also be present in quarry work areas and in all types of construction including road and building.

WHO DOES THE OSHA REGULATION IMPACT?

Crystalline silica can adversely impact those employees involved in construction, general industry and maritime who are potentially exposed to PEL (Permissible Exposure Level) of 25 micrograms/cubic meter of air in an 8 hour period. Many times employees that are exposed for short term periods do not use respiratory protection and, due to the cumulative effects of the airborne particles, still end up with long-term breathing problems like asthma, emphysema and other lung infiltrates.



SOME AREAS OF POTENTIAL EXPOSURE

Activities like abrasive blasting, sawing brick or concrete; sanding or drilling into concrete walls, grinding mortar, manufacturing brick, concrete blocks and stone countertops or ceramic products result in exposure to respirable Crystalline silica dust.

WHEN IS RESPIRATORY PROTECTION NEEDED?

According to OSHA CFR 1910.134, employers must provide respiratory protection where exposures exceed the PEL (Permissible Exposure Limit) during work, maintenance and repair in areas where the employer has implemented all feasible engineering and work practice controls, but exposure remains above the PEL.

OSHA BEGAN ENFORCING THE CONSTRUCTION STANDARD ON 9/23/17, AND THE GENERAL INDUSTRY AND MARITIME ON 6/23/18.

WHY SHOULD WE COMPLY WITH OSHA?

Exposure to RCS puts employees at risk of lung cancer, Silicosis (an incurable lung disease), COPD and kidney disease. **OSHA FINES FOR SILICA DUST VIOLATIONS INCLUDE:** Serious violation \$12,675, Failure to abate \$12,675, Willful or repeated violations \$126,749. Keep in mind that these are per violation. These fines are applicable regardless of the size of your company.

NAFECO INDUSTRIAL SAFETY OPTIONS

SOLUTIONS

NAFECO ISO has a full line of basic filter masks, half-mask and full-face filter masks, SCBA and supplied air systems to meet your Respiratory Crystalline Silica protection needs. We can also help you with other silica environment PPE such as eye protection and wash, disposable coveralls, booties and gloves. We are ready to assist you with these or other safety equipment needs, information or pricing.

Call 1-800-628-6233 ext. 123 and like us on Facebook at NAFECO-Industrial Safety Options Let us Partner with you to help you STAY SAFE!



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SILICA EXPOSURE SOLUTIONS

Dräger X-plore 1300 NIOSH
(CALL FOR PRICING BASED ON MODEL)

- N95 and R95 protection CoolSAFE advanced filter
- Keeps breathing resistance low
- Also available as an odor control version with a carbon layer to remove organic odors below PEL
- Optional exhalation valve
- Increased comfort



Dräger X-plore 3300
(R55945) \$14.95

- Low maintenance and cost effective
- Flexible nose area for secure fit
- Adjustable head harness
- Bayonet filter system (filters sold separately-call for pricing)



Dräger X-plore 2100
(R55882 & R55883) \$43.95

- Reusable alternative to disposable dust mask
- Replaceable filters provide protection against solid & liquid particles
- Reduced leakage compared to disposals
- Drop-down harness allows mask to be removed from face without removing head protection



Dräger X-plore 5500
(R56655) \$159.95

- Full face mask protection for environments where respiratory protection and a clear vision is mandatory
- 5 point harness makes the mask easy to don
- Fog free lens
- Double sealing frame offers superior protection, secure fit & comfort
- Bayonet filter system (filters sold separately- call for pricing)



PortWest Direct Vent Goggle
PW20 \$1.95 / ea

- Flexible PVC frame for comfort
- Direct ventilation to reduce fogging
- Transparent for better side visibility
- ANSI/ISEA Z87+



PortWest Disposable Coverall
ST30 \$139.95 / case of 50

- Elastic hood, ankles and waist
- Two way zipper and sealable front flap
- Anti-static
- ANSI/ISEA 101 compliant
- Size SM-4XL White|M-XXL Navy
- Highly breathable
- Available in Navy Blue and White

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NAFECO Industrial Safety
Options can help you comply with OSHA



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