## Silica Dust Dangers and Safety Measures — Picture This



# FILTERING OUT THE FACTS:

180 facility decision makers answered questions on their thoughts and strategies behind reducing silica dust exposure and a new rule that OSHA estimates will save over 600 lives each year.

#### WHAT IS SILICA?

Respirable Silica Dust is created by cutting, sawing, grinding, drilling and crushing silica producing materials.











RESPIRABLE CRYSTALLINE SILICA IS AT LEAST 100 TIMES SMALLER THAN SAND



#### WHO IS AFFECTED? 74% Ready-Mix 73% Shipyards Concrete 45% Asphalt Roofing Materials 56% Cut Stone 41% Structural Clay Products 35% Foundries 32% Railroads 29% Concrete

Products

Percent of workers currently exposed to respirable crystalline silica dust above the permissible exposure level

WHAT



69% feel the health and safety of employees is the most important factor driving compliance



Approximately 50% of the customers we surveyed have Silica Dust above the Permissible Exposure Level, or don't know if they are in compliance.



86% of facilities have already started or plan to implement a new processes to meet the OSHA regulation before 2018.

### **SOLVING FOR SILICA DUST**



55% have a high urgen with this new rule. have a high urgency in complying

MOST COMMON HOUSEKEEPING PROCESSES PLANNED TO HELP CONTROL SILICA DUST



CLEANING EQUIPMENT



INDUSTRIAL VACUUMS



FLOODING

#### CLEANING METHODS LIKELY TO ADOPT

MOST COMMON



WET SWEEPING



DRY SWEEPING WITH HEPA FILTRATION\*

\*Dry sweeping with HEPA filtration is only acceptable when other methods are not feasible

Source: https://www.tennantco.com/