



REINVENT HOW THE WORLD CLEANS

Silica Dust Solutions

Supporting exposure control plans

Tools and technologies to support silica dust exposure control plans and help you work toward WHS compliance.

- Wet sweeping
- Water flooding
- Dry sweeping with HEPA filtration when other methods aren't feasible



Create healthy environments



Help maintain WHS compliance



Maintain air quality



Managing the Silica Dust Challenge:

Silica dust poses a particular challenge in many work environments, potentially putting your workers' health and safety at risk and exposing your organisation to regulatory fines. With the right tools and technologies, you can work to create safe, healthy and productive work environments, and work toward WHS compliance.

INDUSTRIES IMPACTED BY SILICA DUST:



Building & Construction



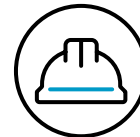
Oils & Gas



Construction Materials



Heavy Industry



Mining

Solving Three Critical Silica Dust Business Challenges

Tennant silica dust control solutions can help you achieve three valuable outcomes.

MAINTAIN AIR QUALITY:

Work to manage silica dust and mitigate respirable dust.

HELP MAINTAIN WHS COMPLIANCE:

Support your customised silica dust control plan and work toward WHS compliance.

CREATE HEALTHY ENVIRONMENTS:

Promote safe, healthy and productive work environments.

Support Your Exposure Control Plan

WHS indicates that a comprehensive silica dust exposure control plan should be customized to the unique environment and needs of each organization, including a range of dust control measures. Fitting within WHS's engineering controls housekeeping practices, Tennant solutions can play a key role in supporting an exposure control plan, and helping you work toward WHS compliance.

A recent Australian study suggests a significant increase in levels of exposure, with approximately 584,050 Australian workers currently exposed to respirable crystalline silica (RCS). The report estimates between 83,000 and 103,000 silicosis cases will result in a further 10,390 lung cancer cases as a result of the RCS exposure.

Silica Dust Exposure Control Methods

Tennant offers three types of dust control methods that can be used to support WHS silica control housekeeping requirements:



1. WET SWEEPING

Wet sweeping is effective in most applications. Several Tennant rider-sweepers can be used for wet sweeping.

- Continual water spray provides a shield of moisture on side brushes.
- Silica dust is kept moist until it is swept up and contained within the hopper.



2. WATER FLOODING

In certain applications, water flooding is a very effective means of silica dust control. All Tennant scrubbers, including walk-behind and ride-on machines, can be used for water flooding.

- Tennant scrubbers use water to contain silica dust, preventing it from becoming airborne.
- Scrubbers then remove the wet dust from floor surfaces.



3. DRY SWEEPING WITH HEPA FILTRATION when other methods aren't feasible*

Dry sweeping with HEPA filtration is an alternate method in applications where other methods, such as wet sweeping or HEPA vacuums, are not feasible. Several Tennant sweepers, riders and walk-behinds are available with HEPA filtration systems.

- Dry system providing a filtration efficiency of 99.97% to 0.3 microns.
- Leverages existing Tennant filtration systems, adding a final-stage HEPA system to collect and contain smaller particles.
- Tennant HEPA filters are supplier tested and certified.
- For additional operator protection, HEPA-pressurized cabs are available on select models.

*Organizations must determine that other methods for silica dust control are not feasible in their work environments.

Tennant's Silica Dust Control Portfolio

DUST CONTROL METHOD	TENNANT PRODUCTS
Wet Sweeping	S20, S30, M20 WOC, M30 WOC
Water Flooding	M20 WOC, M30 WOC, T20, T17, T16, T12
Dry Sweeping with HEPA Filtration*	800, S30, S20, 3640

*When wet sweeping or HEPA filtered vacuuming are not feasible

Tennant – Reinvent how the world cleans

With a vision to become a global leader in sustainable cleaning innovation that empowers our customers to create a cleaner, safer and healthier world, Tennant creates solutions that are changing the way the world cleans.



We are where you are
Tennant has the industry's largest direct sales and service organization and a well-supported network of authorized distributors worldwide.



Solutions for your unique needs
Whatever your cleaning needs, Tennant offers a variety of high quality equipment to help you increase your cleaning productivity.



Buying, leasing, renting
We offer flexible options to get you the machines you need, however you need them.



TennantTrue®
Optimize equipment performance and protect your investment with TennantTrue® parts and service.

Contact a **Tennant representative** to discuss your silica dust control strategy.

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