



PROCESS DUST

Target Dust at the Source. Protect Workers and Equipment.

Dust control solutions engineered for crushers, screens, transfer points, and conveyors.

Why Process Dust Matters

Processing circuits generate high volumes of fine dust at crushers, screens, bins, transfer points, and conveyors. Unlike haul roads or tailings, these areas demand chemistries that can be precisely applied through spray nozzles or foam systems.

Without effective treatment, airborne dust reduces visibility, threatens worker health, accelerates equipment wear, and creates compliance risks. EnviroTech's process dust control solutions are designed for these conditions, helping operators reduce water and energy use while maintaining compliance in the harshest environments.

MSHA Final Rule: Respirable Crystalline Silica

In 2024, MSHA established a uniform exposure limit of $50 \mu\text{g}/\text{m}^3$ (PEL) with an action level of $25 \mu\text{g}/\text{m}^3$. EnviroTech's solutions help mine operators control dust at its source, reducing airborne particulate levels and supporting compliance while improving operational efficiency.

Sustainability & ESG Benefits

EnviroTech's process dust control solutions help operators improve safety, conserve resources, and meet ESG commitments. By replacing plain water with efficient, chemistry-based treatments, mines use less water, cut fuel use, and reduce truck traffic. Worker exposure to airborne particulates is reduced, compliance with MSHA and EPA dust standards is supported, and operations run cleaner and more reliably.

Ultra-low chloride options support sensitive sites, biodegradable formulations reduce long-term environmental impact, and reduced rework minimizes energy losses from lost fines. Every application demonstrates proactive environmental stewardship and corporate responsibility.



TOTAL MINING SOLUTIONS

PROCESS DUST

FEATURED SOLUTIONS

BEST

MINEREADEY SERIES

Water spray enhancers that lower surface tension creating low- to high-expansion foams that blanket material transfer zones, increase contact time and coverage, and ensure airborne dust is captured and suppressed

BETTER

DUSTREADY 3000 & 5000

Bio-polymer-based formulas that enhance moisture retention on fine particles. Provide longer-lasting suppression than plain water and reduce reapplication needs.

GOOD

DURASYNTH EMULSION

A synthetic fluid coating that binds fines with a thin, water-resistant layer. Ideal for dry, high-airflow environments where water evaporates too quickly.

DUSTREADY 47

A surfactant and coalescent blend that improves water performance for immediate dust knockdown. Effective in transfer zones and crushing operations where dust escapes quickly.

The Results

EnviroTech's process dust solutions deliver safer working conditions, stronger compliance, and lower operating costs. By keeping dust under control at the source, operators protect workers, reduce material losses, and maximize process efficiency.

How EnviroTech Helps You Stay Compliant:

Our dust control solutions tackle the problem at its source, keeping fine particles bound in the road surface and out of the air. By significantly reducing airborne dust, especially PM_{10} and $PM_{2.5}$, our products help mine operators:

- Maintain compliance with the new PEL and action level.
- Reduce the need for costly shutdowns and re-work.
- Protect worker health and extend road life.

