



FREEZE CONDITIONING AGENTS

Free-Flowing Materials. Safer Winter Operations.

Freeze-conditioning agents designed to keep bulk materials, conveyors, and transport equipment moving in sub-freezing conditions.

Why Freeze-Conditioning Matters

Winter conditions create costly disruptions for mine and aggregate operations. Bulk materials can freeze to conveyor belts, truck beds, and bins, causing blockages, safety hazards, and extended downtime. Conventional salt treatments often leave behind corrosive residues that damage equipment and increase maintenance costs.

EnviroTech's freeze-conditioning agents are engineered to solve these challenges. They keep materials flowing, protect equipment, and maintain compliance with both safety and environmental standards — even in the harshest winter conditions.



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 freeze-conditioning agents deliver reliable winter performance while aligning with ESG priorities.

Ultra-Low Chlorides

Formulations that combine humectants with modest chloride content provide effective freeze prevention with significantly less environmental loading. They reduce application frequency, prevent material agglomeration, and minimize carryback.

Non-Chloride Options

Synthetic organic treatments deliver corrosion-free freeze conditioning. By depressing the freezing points on body feed material surfaces, they prevent agglomeration or sticking to car sides and equipment. These solutions improve worker safety by reducing ice buildup, support regulatory compliance, and demonstrate proactive sustainability and community stewardship in winter operations.



TOTAL MINING SOLUTIONS

FREEZE CONDITIONING AGENTS

FEATURED SOLUTIONS

BEST

FREEZETROL 62

A bio-polymer based body feed additive effective down to -30°F. Applied at 1-4 pint/ton, it prevents aggregate from freezing together and causing carryback.

BETTER

FREEZETROL 78-G

A blend of bio-polymer and inorganic freeze point depressants, providing reliable freeze-conditioning performance in extreme cold down to -60 °F. Designed for heavy duty applications. Applied at 2-4 pints/ton.

GOOD

FREEZETROL 77-W

A chloride-free, synthetic anti-adhesive treatment that prevents material flow freezing down to -40 F. Ideal for sites needing strong freeze control. Applied at 2-8 pints/ton.

Lower PM₁₀ & PM_{2.5} Exposure

The Results

With EnviroTech freeze-conditioning agents, operators maintain free-flowing materials, protect equipment from ice buildup, and reduce costly winter downtime. Every application improves operational safety, lowers maintenance costs, and supports stronger ESG performance.

How EnviroTech Helps You Stay Compliant:

EnviroTech's winter deicing and anti-icing solutions help operators improve safety and conserve resources. By using efficient, chemistry-based treatments instead of relying solely on salt or sand, roads and sites stay clear with fewer applications. This means less chloride usage, reduced fuel consumption, and lower material handling needs. Ultra-low chloride options minimize corrosion and runoff, protecting equipment, infrastructure, and surrounding ecosystems. Biodegradable formulations further reduce long-term environmental impact, while advanced performance reduces the frequency of reapplications, saving energy and labor. Every treatment demonstrates proactive environmental stewardship, worker safety, and corporate responsibility in winter operations.



EnviroTech's products are engineered for heavy-duty mining demands, delivering long-lasting performance while lowering operational costs and helping you meet ESG targets.

