

North America's Most Popular Dust Control Agent...

There are some 2.6 million kilometers of unpaved roads in North America! These roads are prone to dust resulting from the loss of *fine particles* caused by traffic, evaporation and wind. Dust from roads is a safety hazard and an environmental pollutant. Compromised road surfaces are costly to repair and can cause damage to vehicles. The most effective method for preventing the loss of fine particles is to treat unpaved road surfaces with magnesium or calcium chloride to maintain moisture. This practice extends the life of the road while improving safety and air quality.

Agricultural areas in particular are the most susceptible to the effects of dust. Exposure to the elements, wear from vehicles and implements, as well as trampling from animals all contribute to this problem. Dust acts as a crop inhibitor by restricting photosynthesis and the absorption of pesticides. Dust affects the health and well being of workers and animals. The proper maintenance of riding areas for horses is critical to their performance and safety. With so much at stake operators need to find innovative surface solutions that they can feel confident in.

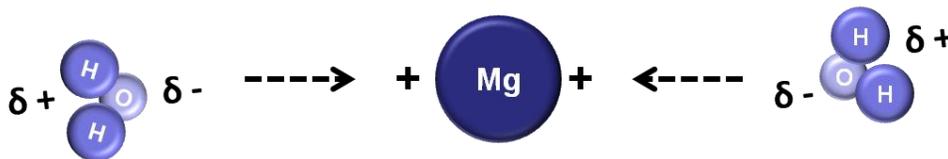
Tips from the Pros for Cost Effective Arena Dust Control:

1. Grade indoor arena to no more than 2° slope.
 2. Harrow surface prior to application.
 3. Apply MAG at 1 kg per m² (1 tonne per 1000 square meters.)
 4. Re-harrow surface to ensure even distribution.
 5. Allow 24 hours for MAG to absorb moisture and dissolve.
- **Treating surfaces with MAG eliminates the need for frequent watering.**



How do Dust Suppressants Work?

Water absorbing dust suppressants work by maintaining moisture in the surface. Many are *hygroscopic* meaning they have the ability to attract moisture from the air. The positive charges of the minerals attract the negative charges of water molecules. When properly applied they resist evaporation while binding fine dust and aggregate particles together to keep surfaces stable and dust free.



The stronger the attraction to the water molecules then the greater the ability to resist evaporation.

Did You Know?

- MAG has the ability to attract and retain **six times more water** in surfaces.
- Magnesium is the central element in Chlorophyll which is **essential to all life**.
- Magnesium prevents evaporation of moisture up to **110° Celsius**.
- MAG is **safer** to use around people, plants and pets! Unlike calcium chloride it does not generate heat!

For more information visit these websites:

Environment Canada: <http://www.ec.gc.ca/nopp/roadsalt/reports/chlorideBP/en/p9.cfm>

Ontario Ministry of Agriculture and Food: <http://www.omafra.gov.on.ca/english/crops/facts/01-015.htm>