



KORTECH CALCIUM SERVICES LTD.

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Calcium Chloride Product Information Sheet

If you are considering using calcium chloride for road stabilization and dust control. This is what you need to know:

Kortech Calcium Services Ltd. is a division of Ward Chemical. www.wardchem.com
www.kortech.ca We supply and apply calcium chloride based products to private contractors and Municipalities for road stabilization and dust control.

Our calcium Chloride brine is a 32% concentrate.

The following are some key points regarding calcium chloride:

- ❖ It is a liquid (water based) product.
- ❖ It is a natural material from our calling lake ground well.
- ❖ It is non-regulated and a non-hazardous material.
- ❖ It is on Alberta Transportations approved list for road spray.

The following are some key points regarding the application of calcium chloride:

Dust Control

- ❖ It is applied using a spray truck at an application rate of 1 litre per m² per inch;
- ❖ Typical application for dust control is to blade or scarify road surface, pre-wet with fresh water and apply calcium at specified rate;

Base Stabilization

- ❖ Typical application for stabilizations is to blade mix or reclaim the product into the aggregate;
- ❖ Wind row the road or shoulder pull the road and begin treating the aggregate in layers;
- ❖ Prior to applying calcium the aggregate must be penetrable (wet) and a pre-wet of fresh water at a rate of 0.5 litres per m² may be necessary depending on moisture content in soil;
- ❖ The product is then mixed into the road material using a grader (blade mixing), a re-claimer or pulverize mixer to ensure that all aggregate is in contact with the product. The aggregate is then laid down and shaped with a grader and packed in lifts.
- ❖ In Municipalities with lighter traffic (i.e. pick up trucks) stabilize 4 - 6 inches of material;
- ❖ On the logging or oilfield roads we stabilize 6 to 12 inches depending on the contractors/engineers preference;

The following are results you will see with the calcium product:

- ❖ Increased densities and CBR's (California Bearing Ratio) close to that of asphalt;



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- ❖ Stronger road base and surface that can be capped in the future (if you choose);
- ❖ Dust control;
- ❖ Increased speed of traffic flowing through;
- ❖ Less maintenance on vehicles, due to a smoother surface;
- ❖ Pleased ratepayers, due to the dust control and uniformed road.