

53.31 SUPPLY AND APPLY CALCIUM CHLORIDE DUST ABATEMENT

53.31.1 GENERAL

The Work consists of supplying and applying liquid or flake calcium chloride materials as dust control for gravel roads.

53.31.2 MATERIALS

The Contractor shall supply all materials necessary to complete the Work including the calcium chloride and water.

The Contractor shall have the option of using liquid or flake calcium chloride. Liquid calcium chloride solution shall contain 25% to 35% calcium and magnesium chloride by weight of the total solution.

The Contractor shall supply the Engineer with a certificate of analysis for each source used and each time the material characteristics change. The Contractor shall ensure that the certificate of analysis represents the material incorporated into the Work and that a copy of the applicable certificate accompanies each load arriving on site.

53.31.3 EQUIPMENT

The Contractor shall supply all equipment necessary to complete the Work.

53.31.4 PROCEDURE

All Work shall be performed during daylight hours only. No Work shall be performed when the visibility is less than 700 metres.

Traffic control and signing shall be performed in accordance with Specification 55.1, Traffic Accommodation and Temporary Signing.

If required, the roadway surface shall be prepared in accordance with Specification 53.27, Maintenance of Gravel Surface Roads. The top 25 mm of surface shall then be saturated with water prior to the application of the calcium chloride solution. The Engineer will determine the application rate of the calcium chloride solution depending on the concentration of the material and the condition of roadway surface.

The calcium chloride shall be applied to the roadway surface to a minimum width of 7 m. The completed treatment shall provide a smooth and dust free surface.

53.31.5 TIME TO COMPLETE

The Contractor shall complete the Work within 30 calendar days of the issuance of the Work Order.

53.31.6 MEASUREMENT AND PAYMENT

Measurement will be in tonnes of calcium chloride flake delivered to the work site based on the supplier's weigh bills. Liquid calcium chloride solution will be converted to an equivalent of 77% calcium chloride flake based upon the solution ratio and/or the specific gravity, as tested by the Engineer or shown in the manufacturer's analysis.

Payment will be made at the unit price bid per tonne of calcium chloride at 77% calcium chloride flake equivalent

for "Supply and Apply Calcium Chloride". This payment will be full compensation for supplying and applying water, supplying, applying and mixing calcium chloride into the roadway surface, traffic accommodation and signing and all labour, materials, equipment, tools and incidentals necessary to complete the Work.

Measurement and payment for preparing the roadway surface will be made in accordance with Specification 53.27, Maintenance of Gravel Surface Roads.

53.31.7 WARRANTY

The warranty period for this Work shall be 90 days.