

Calcium Chloride – 35%
SPECIFICATIONS

1. Definitions

The term Director (Superintendent, etc.) shall mean the Director of Public Works of the awarding authority.

The term Designee shall mean an employee of the awarding authority, designated by the Director.

The term Contractor shall mean a professional company contracted by the awarding authority to perform work under this agreement.

2. Materials

a. Liquid Calcium Chloride

The calcium chloride solution shall be provided by the manufacturer as a true solution and shall not be reconstituted from flake calcium chloride. The calcium shall meet the following material specifications (see ASTM Designation D98; AASHTO-M144).

Calcium Chloride	35% +/- 1%
Alkali Chloride as NaCl	2% max.
Magnesium as MgCl	0.1%

Typical (in lbs. per gallon)

Calcium Chloride	5.050
Sodium Chloride	0.200
Magnesium Chloride	0.004
Calcium Sulfate	0.004
Water	<u>6.002</u>
	11.26

3. Pressure Distributor

The distributor for calcium shall be capable of applying liquid calcium chloride in accurately measured quantities at any rate between 0.5 to 9.1 liters per square meter, (0.1 to 2.0 gallons per square yard), of roadway surface, at any length of spray bar up to 6.1 meters, (20 feet). The distributor shall be capable of maintaining a uniform rate of distribution of material regardless of change in grade, width or direction of the road. The distributor shall be equipped with Digital Volumetric Accumulator capable of measuring liters applied and distance traveled. The volume and measuring device shall be equipped with a power unit for the pump so that application is by pressure, not gravity. The spray nozzles and pressure system shall provide a sufficient and uniform fan-shaped spray of material throughout the entire length of the spray bar at all times while operating, and shall be adjustable laterally and vertically. The spray shall completely cover the roadway surface receiving the treatment.

The successful contractor will own all equipment for application, and have the ability to supply two (2) distributors

All bidders must submit with their bids a Materials Safety Data Sheet (MSDS) sheet showing a list of material supplier.

BID FORM

CALCIUM CHLORIDE

**LIQUID CALCIUM CHLORIDE (35%)
APPLIED AS PER ATTACHED SPECIFICATIONS**

\$ _____ per Gallon

Bidder: _____ Phone: _____

Address: _____ Fax: _____

Signature: _____

Printed Name & Title: _____

Date: _____

**REFERENCE LIST
CALCIUM CHLORIDE**

Please list six similar projects that have been completed.

Owner:
Address:
City,State,Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City,State,Zip:
Contact:
Phone:
Contract Amount:

Owner:
Address:
City,State,Zip:
Contact:
Phone:
Contract Amount:

Owner:
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City,State,Zip:
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