

**SPECIFICATIONS FOR
CORROSION INHIBITED CALCIUM CHLORIDE SOLUTION
BASE STABILIZATION AND DUST CONTROL**

Corrosion Inhibitor:

The inhibited Calcium Chloride should contain no less than the minimum inhibitor specified by the supplier.

Corrosion Rate:

The corrosion rate shall be at least 70% lower than reagent grade sodium chloride tested under similar conditions. Testing methods for confirmation shall conform to the following requirements:

Coupon dip test, 72 hours 10 min. in/50 min. out @ 65-80 degrees F ambient temperature

Deicer diluted to 3% by weight

Testing Method: NACE Standard TM0169-95
SHRP-H205.7

The successful contractor must submit results from testing to confirm results from an independent laboratory pertaining to Corrosion Rate. Neglecting to submit results will cause the disqualification of bidder.

Precipitation & Flocculation:

The successful bidder must provide Calcium Chloride with No Precipitation or Flocculation & Solidification.

Test Method: Standing sample for 168 hours @ -2 F

Specific Gravity

Minimum Specific Gravity shall be 1.317

Packaging and Packing:

The product shall be packed in a manner which will ensure arrival at destination in a satisfactory condition.

The product shall be delivered in bulk in tank trucks. Delivery shall be in load lots of 500 gallons or more and shall be made within 24 hours of request for delivery. Each delivery truck shall be equipped with pumps and hand hoses for the unloading calcium chloride.

Toxic Substance-Materials Safety Data Sheets:

Each Contractor must submit at least *two* Material Safety Data Sheets (MSDS).

Corrosion Inhibited Calcium Chloride Solution (32%):

The calcium chloride solution shall be provided by the manufacturer as a true solution and shall not be reconstituted from flake CaCl₂. The calcium chloride shall meet the following material specification (see ASTM Designation D98; AASHTO-M144)

| | |
|-------------------------|-------------|
| Calcium Chloride | 32% +/- 1% |
| Alkali Chloride as NaCl | 2% max. |
| Magnesium as MgCl | 0.1% |
| Phosphates | <5.000 PPM |
| Cyanide | <0.050 PPM |
| Arsenic | <1.000 PPM |
| Copper | <0.200 PPM |
| Lead | <0.400 PPM |
| Mercury | <0.005 PPM* |
| Chromium | <0.100 PPM |
| Cadmium | <0.100 PPM |

Test Method: Standard Methods for the determination of water and waste, 19th Edition 1995.
Method 3120B/*3112B

Typical (In Lb. per Gallon)

| | |
|--------------------|--------------|
| Calcium Chloride | 4.500 |
| Sodium Chloride | 0.200 |
| Magnesium Chloride | 0.004 |
| Calcium Sulfate | 0.004 |
| Water | <u>5.800</u> |
| | 10.50 |

Certification:

With each shipment the Contractor shall provide certification that the product offered meets the above requirements and conforms to the manufacturer's specifications, standards and quality assurance practices and is the same as is offered for sale in the commercial marketplace.

BID FORM

**BID ITEM: CORROSION INHIBITED CALCIUM CHLORIDE SOLUTION
BASE STABILIZATION AND DUST CONTROL**

Price per Gallon \$ _____

Bidder: _____ Phone: _____

Address: _____ Fax: _____

Signature: _____

Printed Name & Title: _____

Date: _____

REFERENCE LIST
CORROSION INHIBITED CALCIUM CHLORIDE SOLUTION
BASE STABILIZATION AND DUST CONTROL

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:
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Contract Amount:

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