



Minnesota Department of Transportation
Approved Corrosion Inhibitor Program
March 4, 2014

The Minnesota Department of Transportation (MnDOT) will only accept corrosion inhibitors from the MnDOT Approved/Qualified Products List. This applies to all corrosion inhibitors sold to contractors for use on MnDOT projects.

For a corrosion inhibitor to be approved by MnDOT, a manufacturer must demonstrate an ability to manufacture corrosion inhibitors meeting the requirements of ASTM C1582.

The Manufacturer must comply with the following:

A. Manufacturer Quality Control Program

Conduct an internal Quality Control Program. MnDOT may request this Quality Control Program at any time.

B. Reference Samples

Manufacturer shall submit a 1 quart sample for approval to the MnDOT Materials Lab along with an infrared spectrum (IR) of the corrosion inhibitor. Also include a Materials Safety Data Sheet (MSDS) and a Technical Data Information Sheet.

C. Testing

Manufacturer shall provide Independent Testing from a CCRL Laboratory for each corrosion inhibitor. Tests will be performed according to ASTM Standards, or MnDOT Methods as detailed in the MnDOT product specification. Other test methods may be used upon approval by MnDOT.

D. Certification

Each admixture shall be accompanied by manufacturer's written certification including:

- Typical Dosage Rate
- If a corrosion inhibitor contains calcium nitrite the content shall not be less than 29% solids by weight
- Compatibility with Mineral Admixtures (and Dosage Rate if different)
- Chloride Content less than 250-ppm
- Physical Properties
 - Total Solids
 - PH

- Specific Gravity

E. Field Acceptance

If the above criteria are met successfully, the corrosion inhibitor will be given tentative approval, contingent upon satisfactory performance in the field.

F. Non-Compliance

If future samples of these materials do not meet MnDOT specifications or the uniformity requirements, the product may be removed from the approved product list and subject to other failing material procedures.

Please also note that it is the manufacturer's responsibility to immediately notify MnDOT if the chemical formulation of any product is changed or modified, or if the product is no longer being produced. If our testing determines that the chemical formulation has changed, without prior notification from the manufacturer, the product may be removed from the approved product list.

Reference samples, test data, and certification shall be sent to:

Minnesota DOT
Attention: MnDOT Concrete Engineering Unit
1400 Gervais Ave.
Maplewood MN 55109

Tel. (651) 366-5575
Fax (651) 366-5530