

# **HYDRAULIC CEMENT (PORTLAND & BLENDED CEMENT)**

## **GENERAL**

This evaluation procedure outlines the Department's approval process for hydraulic cement.

## **SPECIFICATIONS**

TDOT Standard Specifications Section 901 (to include any/all Supplemental Specifications)  
ASHTO M 85  
AASHTO M 240

## **PROCEDURES**

For a cement to be accepted onto the Tennessee Department of Transportation (TDOT) Producer List, the manufacturer/producer of the cement must provide the following:

1. Quality Control Plan
  - a. Contact information including:
    - Mailing address
    - Representative's name, email, and phone number
  - b. Proof of laboratory accreditation
  - c. Safety Data Sheet(s) (SDS)
2. Material Certification including:
  - a. Name of manufacturer
  - b. Location and name of plant
  - c. Type and trade name of cement
  - d. Mill test report of chemical and physical analyses
  - e. Certification stating that the product meets the above specifications
  - f. Six (6) consecutive production cycles of mill test results
3. A representative sample reduced to 1-pint submitted to Headquarters Materials and Tests Division

For a cement to be accepted onto the Tennessee Department of Transportation (TDOT) Producer List, the terminal supplying the cement must provide the following:

1. Quality Control Plan (Terminal Specific Operations)
  - a. Material Offloading/Loading Plan
  - b. Material Storage Plan (to include location on facility site)
  - c. Contact information including:
    - Terminal Mailing address
    - Terminal Representative's name, email, and phone number
    - Contact information of each manufacturer/producer including:
      - Manufacture's/Producer's Mailing address
      - Manufacture's/Producer's Representative's name, email, and phone number

- Proof of laboratory accreditation
- Safety Data Sheet(s) (SDS)
- Materials Certification including:
  - Name of manufacture
  - Location and name of plant
  - Type and trade name of cement
  - Mill test report of chemical and physical analyses
  - Certification stating that the product meets the above specifications
  - Six (6) consecutive production cycles of mill test reports
- d. A representative sample from the terminal reduced to 1-pint submitted to Headquarters Materials and Tests Division

For a foreign cement to be accepted onto the Tennessee Department of Transportation (TDOT) Producer List, the manufacturer/producer of the cement must provide the following:

1. Quality Control Plan
  - a. Contact information including:
    - Mailing address
    - Representative's name, email, and phone number
  - b. Proof of laboratory accreditation
  - c. Safety Data Sheet(s) (SDS)
  - d. Port of Entrance
2. Material Certification including:
  - a. Name of manufacturer
  - b. Location and name of plant
  - c. Type and trade name of cement
  - d. Mill test report of chemical and physical analyses
  - e. Certification stating that the product meets the above specifications
  - f. Six (6) consecutive production cycles of mill test results

Manufacturers/Producers must be accredited through the AASHTO Accreditation Program (AAP). This is a comprehensive accreditation program consisting of:

1. Establishment of a quality management system program
2. Participation in a proficiency testing program
3. A laboratory inspection program including
  - a. Observation of testing proficiency
  - b. Inspection of laboratory equipment
4. The manufacturer's accreditation shall include the following AASHTO (ASTM) test methods: T105 (C114), T106 (C109), T107 (C151), T127 (C183), T129 (C187), T131 (C191), T137 (C185), T153 (C204), T154 (C266), T162 (C305), T186 (C451), T192 (C430), (C1437), (C1506).

Cement producers must undergo the above requirements. Verification testing will be performed by the Department to verify that the material meets the above specifications prior to adding the producer to the Producer List.

To remain on the Producer List, Material Certification Reports and 1-pint composite samples (for each plant listed) must be submitted to Headquarters Materials and Tests Division no later than the 15<sup>th</sup> of each month. Material Certification Reports shall be sent to the following:

[TDOT.CementitiousMTR@tn.gov](mailto:TDOT.CementitiousMTR@tn.gov).

If a product will not be produced during the month, an email stating the facilities' intent of the product not being produced shall be sent to the email below.

The above procedures assure consistency of product, support quality control, and assure adherence to the current TDOT Standard Specifications for Road and Bridge Construction.

All submittals must be submitted to Headquarters Materials and Tests Division at the contact listed below.

Headquarters Materials and Tests Division  
6601 Centennial Boulevard  
Nashville, Tennessee 37243

For submittal of product certifications and for notice of non-producing facilities, email us at the following email: [TDOT.CementitiousMTR@tn.gov](mailto:TDOT.CementitiousMTR@tn.gov).