

**STATE OF OHIO
DEPARTMENT OF TRANSPORTATION**

SUPPLEMENT 1045 - MICRO-SILICA CERTIFICATION

April 15, 2005

1045.01 Scope

1045.02 Procedure

1045.01 Scope. This supplement outlines the certification process for micro-silica. Micro-silica certification is the approval method the Department will use for project acceptance of micro-silica, conforming to the requirements of 701.10, without project pre-sampling and testing.

1045.02 Procedure.

A. The manufacturer of Micro-silica materials will request certification. Make the request to the Office of Materials Management and provide:

1. A letter of certification stating that each type (bulk or bagged) micro-silica proposed for certification will meet current 701.10 specifications.
2. Production test data developed over the last year on the micro-silica
 - (i) Test data may not be required if the Department has current data on record
3. Facility's current CCRL inspection report.
 - (i) Each facility must have a separate approval for certification
4. ½ gallon (2 L) sample
5. Completed and Notarized form, included in this supplement, holding the State harmless against direct and indirect costs involved in corrective action required due to the inclusion into the work of non-specification or non-certified micro-silica.

B. The manufacturer, in requesting certification, agrees to:

1. Submit monthly test data from the manufacturing facility to the Office of Materials Management.
 - (i) The test data must be in tabular format from the daily production data and include all chemical composition required in Table 1 of ASTM C1240 (Electronic submission preferred)

2. Have the manufacturer's laboratory inspected each inspection tour by the Cement and Concrete Reference Laboratory, U.S. Bureau of Standards. Submit a copy of the CCRL report and documentation of corrected footnoted items to the Office of Materials Management.
3. Maintain records of production control tests for a period of five years and upon request provide those records.
4. Notify the Office of Materials Management of intent to purchase and/or distribute another certified source by completing form S-1045 and obtaining approval.

C. The Office of Materials Management will approve the requested manufacturing facility for certification upon review of the data, completion of testing of the manufacturer provided sample, and satisfactory completion one (1) round of Department Quality Assurance Testing. The Department will obtain a sample from the manufacturer and perform the Quality Assurance (QA) testing within 30 days of receipt of the manufacturer's certification request. Approval and acceptance of the material will be based on the Department's Quality Assurance sampling and testing of the material. Results of the acceptance testing will be forwarded to the manufacturer within 15 days of testing. If the material meets specification requirements, the material will be approved for use on ODOT projects upon receipt of the approval letter from the Department.

D. The Department will obtain field samples on a frequency of one sample every 180 days per ready mix plant from bulk or bagged micro-silica.

1. If any two in a series of ten consecutive field samples fail to meet the requirements of the 701.10 specification, the micro-silica will be removed from certification. In addition, the Department may take action under 105.11.
2. Micro-silica shipped after removal from certification must be sampled, tested and approved before use.
3. Dispute Resolution – The supplier of the micro-silica may request a review for removal from the certification program through the Administrator of the Office of Materials Management. Submit the request in writing within 15 working days of notification of removal, indicate the reason for the appeal and provide supporting documentation. The Department will hold an appeals meeting within 30 days of receipt of the request.

E. Following certification:

1. The micro-silica facility or shipping terminal must document each shipment of certified micro-silica with two original bill-of-ladings that contain the statement:

“ODOT Certified Micro-Silica” - In accordance with S-1045
Micro-Silica approved for use upon receipt.

The bill-of-lading must also contain the following:

- (i) Type of micro-silica (bagged or bulk)
- (ii) Manufacturing Source:
- (iii) City & State
- (iv) Shipping Origin: City, State and Phone Number
- (v) Quantity
- (vi) Consignee and Destination
- (vii) Bill-of-lading Number
- (viii) Date

The two copies of the original bill-of-lading shall be left at the destination for the ODOT representative.

2. Upon request the micro-silica facility or terminal will furnish an ODOT representative access to those parts of the facility or terminal engaged in the testing, storage, and shipment of micro-silica produced for State projects.

F. Failure to comply with the requirements of this supplement or failure to meet test standards may result in removal from certification.

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_____ hereby requests the
(Manufacturer Name)
following types of micro-silica be certified in accordance with the Ohio Department of
Transportation Supplement 1045.

Bulk _____

Dissolvable Bag _____

Non-Dissolvable Bag _____

(Check all that apply)

The manufacturer holds the Ohio Department of Transportation harmless against direct or
indirect costs involved in corrective action required due to the inclusion of non-specification
micro-silica.

Mfg. Contact Person: _____

Phone: _____ Fax: _____

Plant Physical Address: _____

Shipping Terminal Location(s), City & State, for micro-silica certified by above plant:

Signature: _____ Title: _____

To be Notarized