

ALABAMA DEPARTMENT OF TRANSPORTATION
PROCEDURE FOR EVALUATION & MAINTENANCE OF

LIST I-3

MINERAL ADMIXTURES FOR USE IN PORTLAND CEMENT CONCRETE

1. **Material:** Fly ash, microsilica, and slag cement.
2. **Specification:** Section 806
3. **Jurisdiction:** Product Evaluation Board, Concrete Engineer
4. **Job Acceptance Requirements:** No job control testing required if material comes from a listed source and performs satisfactorily.
5. **Project Engineer's Responsibility:** The Project Engineer must verify that the materials are from approved sources.
6. **Procedure for Fly Ash**
 - 6.1. **Producer's Initial Requirements:** Companies wishing to have sources evaluated should furnish the Department's Product Evaluation Engineer and Concrete Engineer with the following:
 - 6.1.1. Name and address of the company producing the product, to include the sales and technical representative or contact person at the plant.
 - 6.1.2. Class of fly ash being produced.
 - 6.1.3. Test data covering the parameters in AASHTO M 295 for a period of 6 months prior to the request.
 - 6.1.4. A 10 lb (5 kg) sample of current run fly ash.
 - 6.1.5. A written request for an initial mill and mill laboratory inspection sent to the Concrete Section of the Bureau of Materials & Tests.
 - 6.1.6. A copy of the quality control plan for the production facility.
 - 6.1.7. Submittal and testing fees, in accordance with Department Procedure ALDOT-355.
 - 6.2. **Producer's Maintenance Requirements:** The producer of the material will be required to carry out the following:
 - 6.2.1. Furnish one random 10 lb (5 kg) sample to the Department each month that the source is active.
 - 6.2.2. Furnish the Department with test data covering the parameters required in AASHTO M 295 for each month the source is active. This data may be acquired by analysis of a composite taken during the month. Data for available alkalis will not be required.
 - 6.2.3. Notify the Department within 30 days of any changes in name, address, or ownership.
 - 6.2.4. If a source temporarily stops production, furnish the Department written notification of when the production stoppage will go into effect, and approximately how long it will last.
 - 6.2.5. Resubmit the information & samples required for the initial evaluation whenever the product is changed.
 - 6.3. **Laboratory Testing:** The Department will make selected verification tests of the product to ensure compliance with current Specifications.
 - 6.4. **Contractor's Requirements:** The prime contractor will be responsible for purchasing and using only approved fly ashes.
 - 6.5. **Removal of Products:** Products will be removed from this list for any of the following reasons:
 - 6.5.1. Mislabeling products, or substitution of products other than those originally evaluated.
 - 6.5.2. Failure to comply with any of the requirements of this procedure.
 - 6.5.3. Failure to perform satisfactorily in the field.
7. **Procedure for Microsilica**
 - 7.1. **Producer's Initial Requirements:** Companies wishing to have sources evaluated should furnish the Department's Product Evaluation Engineer and Concrete Engineer with the following:

- 7.1.1. Name and address of the company producing the product, to include the sales and technical representative or contact person at the plant.
 - 7.1.2. Form of microsilica being produced (slurry or powder).
 - 7.1.3. Test data covering the parameters in AASHTO M 307 for a period of 6 months prior to the request.
 - 7.1.4. A 10 lb (5 kg) sample of current run powder microsilica, or 4 L of liquid microsilica.
 - 7.1.5. A written request for an initial mill and mill laboratory inspection sent to the Concrete Section of the Bureau of Materials & Tests.
 - 7.1.6. A copy of the quality control plan for the production facility.
 - 7.1.7. Submittal and testing fees, in accordance with Department Procedure ALDOT-355.
- 7.2. **Producer's Maintenance Requirements:**
The producer of the material will be required to carry out the following:
- 7.2.1. Furnish one random 10 lb (5 kg) or 4 L liquid sample to the Department each month that the source is active.
 - 7.2.2. Furnish the Department with test data covering the parameters required in AASHTO M 307 for each month the source is active. This data may be acquired by analysis of a composite taken during the month.
 - 7.2.3. Notify the Department within 30 days of any changes in name, address, or ownership.
 - 7.2.4. If a source temporarily stops production, furnish the Department written notification of when the production stoppage will go into effect, and approximately how long it will last.
 - 7.2.5. Resubmit the information & samples required for the initial evaluation whenever the product is changed.
- 7.3. **Laboratory Testing:** The Department will make selected verification tests of the product to ensure compliance with current Specifications.
- 7.4. **Contractor's Requirements:** The prime contractor will be responsible for purchasing and using only approved microsilica.
- 7.5. **Removal of Products:** Products will be removed from this list for any of the following reasons:
- 7.5.1. Mislabeling products, or substitution of products other than those originally evaluated.
 - 7.5.2. Failure to comply with any of the requirements of this procedure.
 - 7.5.3. Failure to perform satisfactorily in the field.
8. **Procedure for Slag Cement**
- 8.1. **Producer's Initial Requirements:**
Companies wishing to have sources evaluated should furnish the Department's Product Evaluation Engineer and Concrete Engineer with the following:
- 8.1.1. Name and address of the company producing the product, to include the sales and technical representative or contact person at the plant.
 - 8.1.2. Grade of slag cement (Grade 100 or 120) being produced.
 - 8.1.3. Test data covering the parameters in AASHTO M 302 for a period of 6 months prior to the request. The Reference Cement used for Slag Activity Tests shall be the CCRL Common Reference Cement.
 - 8.1.4. A 10 lb (5 kg) sample of current run slag cement.
 - 8.1.5. A written request for an initial mill and mill laboratory inspection sent to the Concrete Section of the Bureau of Materials & Tests.
 - 8.1.6. A copy of the quality control plan for the production facility.
 - 8.1.7. Submittal and testing fees, in accordance with Department Procedure ALDOT-355.
- 8.2. **Producer's Maintenance Requirements:**
The producer of the material will be required to carry out the following:
- 8.2.1. Furnish one random 10 lb (5 kg) sample to the Department each month that the source is active.
 - 8.2.2. Furnish the Department with test data covering the parameters required in AASHTO M 302 for each month the source is active. This data may be acquired by analysis of a composite taken during the month.
 - 8.2.3. Notify the Department within 30 days of any changes in name, address, or ownership.
 - 8.2.4. If a source temporarily stops production, furnish the Department written notification

of when the production stoppage will go into effect, and approximately how long it will last.

- 8.2.5. Resubmit the information & samples required for the initial evaluation whenever the product is changed.
- 8.3. **Laboratory Testing:** The Department will make selected verification tests of the product to ensure compliance with current Specifications.
- 8.4. **Contractor's Requirements:** The prime contractor will be responsible for purchasing and using only approved slag cement.
- 8.5. **Removal of Products:** Products will be removed from this list for any of the following reasons:
 - 8.5.1. Mislabeling products, or substitution of products other than those originally evaluated.
 - 8.5.2. Failure to comply with any of the requirements of this procedure.
 - 8.5.3. Failure to perform satisfactorily in the field.
9. **Correspondence:** All correspondence concerning this list should be directed to:

Alabama Department of Transportation
Attn: Product Evaluation Engineer
3700 Fairground Rd
Montgomery, AL 36110