

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, 2015 EDITION**

Delete SECTION 2006 and replace with the following:

SECTION 2006

SILICA FUME

2006.1 DESCRIPTION

This specification covers silica fume, or microsilica, that may be used as a partial replacement for portland cement and blended hydraulic cement in concrete, when allowed by other parts of the Contract Documents. Silica fume is a by-product resulting from the reduction of high purity quartz with coal in electric arc furnaces in the manufacture of silicon and ferrosilicon alloys.

2006.2 REQUIREMENTS

Provide material which complies with ASTM C 1240, "Standard Specification for Silica Fume Used in Cementitious Mixtures."

2006.3 TEST METHODS

As specified in ASTM C 1240.

2006.4 PREQUALIFICATION

a. Manufacturers desiring to provide material under this specification are to submit the following to the Engineer of Tests:

- (1) A 2-gallon prequalification sample of each product they wish to prequalify.
- (2) Complete instructions on the use of the material and a Safety Data Sheet (SDS).
- (3) Copies of quality control test reports for the 6 months prior to the date of submittal to substantiate a history of satisfactory quality control. Also, provide evidence that the quality control laboratory is accredited by a national accrediting body, such as AASHTO Resource, and regularly inspected receiving satisfactory ratings by the Cement and Concrete Reference Laboratory (CCRL).

b. If the prequalification samples comply with the requirements of **subsection 2006.2**, and the other submittals are satisfactory, the name of the product will be placed on a list of prequalified products maintained by the Bureau of Construction and Materials.

c. Semi-annual results of the producer's quality control testing, as defined above, are required to be forwarded to the Bureau of Construction and Materials to maintain status on the prequalified list. Producers and products will remain on the prequalified list, so long as verification samples and quality control test results obtained by the producer comply with all requirements and indicate acceptable quality control.

2006.5 BASIS OF ACCEPTANCE

a. Prequalification as specified in **subsection 2006.4**.

b. Receipt and approval of a Type C certification as specified in **DIVISION 2600**.

c. Verification samples will be taken by each District, at the rate of one per year, for each silica fume producer supplying material to that District's projects.