



Standard Practice for Sampling Ceramic Whiteware Clays¹

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^{ε1} NOTE—Section 3 was added editorially in October 1997.

1. Scope

1.1 This practice covers procedures for sampling bulk and bagged shipments of ceramic whiteware clays.

2. Sampling

2.1 Where a bulk shipment consists of lumps, a number of pieces shall be picked from different parts of the car, so that the final sample will represent an average of all parts of the shipment from top to bottom. For a 30-ton (27-Mg) unit, no less than 20 samples of approximately 10 lb (4.5 kg) each shall be taken from different parts of the car. This may be done by digging holes at equally spaced intervals in the loaded car, or by removal during loading or unloading, at spaced intervals. The lumps shall then be broken to pieces no larger than 4 in. (102 mm), in the largest dimension, and the several samples shall be made into a composite lot, by turning with a shovel on a clean floor. The composite shall then be quartered or riffled to

provide a 10-lb laboratory sample.

2.2 Where a bulk shipment consists of shredded or coarsely ground clay, sampling shall be done at 20 points for a 30-ton (27-Mg) unit; the samples may be taken with a shovel, or with a grain sampler, if the form of the clay permits. The samples so taken shall then be mixed thoroughly, and quartered or riffled to form a 10-lb (4.5-kg) (or proportionately larger) laboratory sample.

2.3 For bagged lots of ground or air-floated clay, the number of samples taken shall depend on the number of units in a shipment. A grain-sampler or similar sampling instrument shall be used to take samples which then shall be combined, mixed, and quartered or riffled to obtain a 10-lb (4.5-kg) laboratory sample. Where a shipment consists of 100 bags or less, the number of bags sampled at random shall be not less than 5 and preferably 10. When the number of bags is greater than 100 but less than 500, the number of bags sampled shall not be less than 15. For lots of from 500 to 1000 bags, 20 bags shall be sampled. For shipments of 1000 to 2000 bags, 30 bags shall be sampled at random.

3. Keywords

3.1 clay; sampling

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