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Sampling method for lime

石灰取样方法

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Sampling method for lime

1 Scope

This document specifies the terms and definitions, sampling tools, sampling sites and locations, total sampling size, sampling procedures, sample preparation, packaging and storage, sampling sheets, of lime sampling.

This document is applicable to the inspection sampling of the production and use of quicklime, quicklime powder, slaked lime powder.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

JC/T 619 Terms for lime

3 Terms and definitions

The terms and definitions as defined in JC/T 619, as well as the following terms and definitions, apply to this document.

3.1

Manual sampling

Collection of lime samples by the use of manual sampling tools.

3.2

Automatic sampling

Collection of lime samples by the use of an autosampler.

3.3

Unit sample

A lime sample, which is taken from a point or part of each inspection lot, according to the specified amount.

out in rainwater OR in a heavily polluted environment.

5.2 The sampling of lime production inspection should be at the following locations:

- a) Lime kiln's outlet;
- b) Lime conveyor belt;
- c) Lime storage or storage yard;
- d) The discharge port of the conveying pipeline;
- e) Feeding port of lime, before exit-factory, into the transportation equipment, bagged, bulk trucks, etc.

5.3 Sampling for lime use inspection should be at the following locations:

- a) Feeding port of lime, before exit-factory, into the transportation equipment, bagged, bulk trucks, etc.;
- b) Material inlet and outlet of bulk truck, on the lime transportation equipment handed over by the user;
- c) Lime warehouse or storage yard.

6 Total sampling

The total amount of quicklime, which is sampled for each inspected lime inspection lot, shall not be less than 24 kg; the total amount of quicklime powder and slaked lime powder sampled shall not be less than 5 kg.

7 Sampling steps

7.1 Sampling from storage yards, warehouses, vehicles (ships)

Use ordinary pointed steel shovel or I-type manual sampling shovel for sampling. Randomly select 12 sampling points, from different parts of each inspection lot. The sampling points shall be evenly or cyclically distributed on the diagonal or quarter line of the storage yard, warehouse, vehicle (ship); meanwhile it shall take samples from 100 mm below the surface or 100 mm above the bottom layer; each unit sample is not less than 2 kg. If there is a large block, which has a maximum size greater than 100 mm, in the sampling point, it shall be crushed. Take some of the broken blocks, that can represent the mass of the block; break it; pass it through a 20 mm test sieve, to obtain the unit sample. The single sample obtained shall be immediately put into a clean, dry,

moisture-proof airtight container or sealed bag.

7.2 Sampling at the inlet and outlet of conveyor belts, lime silos, bulk trucks

For lumpy lime, use I-type manual sampling shovel or ordinary pointed steel shovel to take sample. From the flowing quicklime of each inspection lot, take 12 unit samples at regular intervals; each sample is not less than 2 kg. If there is a large block, which has the largest size greater than 100 mm, in the sampling point, it shall be processed in accordance with 7.1.

For powdered lime and slaked lime, use manual sampling tube or type-II manual sampling shovel to take sample, OR use automatic sampler to take sample. Take 10 unit samples, at regular intervals, from the flowing quicklime powder or slaked lime powder, in each inspection lot; each unit sample shall not be less than 0.5 kg.

The obtained unit sample is immediately put into a clean, dry, moisture-proof airtight container or airtight bag.

7.3 Sampling at the outlet of the lime kiln

Select the appropriate sampling location, according to the discharge method of the lime kiln's discharge port AND the lime temperature; proceed according to 7.2.

7.4 Sampling in bags

For bags of lime not more than 100 kg, randomly take 10 bags from each inspection lot (the bags shall be intact). Use the manual sampling tubes for sampling. Insert the sampling tube, obliquely from the opening of the bag, to an appropriate depth, in the bag. Take out a tube of lime. The sampling volume of each bag of lime shall not be less than 0.5 kg.

For bags of lime not less than 1000 kg, randomly take 6 bags from each inspection lot (the bags shall be intact:). For the lumpy lime, use the type-II sampling shovel to take sample, uniformly from two locations along the center line, according to 7.1. For powder lime, use a manual sampling tube to take sample, uniformly from two locations along the center line; insert the sampling tube diagonally into the bag, to an appropriate depth, to take out a tube of core lime; the mass of each unit sample is not less than 0.5 kg.

The unit sample obtained shall be immediately put into a clean, dry, moisture-proof airtight container or sealed bag.

8 Sample preparation

8.1 Composite sample

The unit samples, which are obtained from each inspection lot, shall be uniformly mixed, immediately after unpacking. Use the quartering method to reduce it. The lumpy quicklime shall be reduced to not less than 9 kg; the quicklime powder or slaked lime powder shall be reduced to not less than 1 kg.

8.2 Test sample and retained sample

Divide the reduced mixed sample equally, one is the test sample AND the other is the retained sample.

9 Packaging and storage

9.1 The obtained test sample and retained sample shall be stored immediately in a clean, dry, moisture-proof container, that does not affect the performance of lime, AND sealed.

9.2 The samples shall be stored in a dry environment. The sample container shall have a clear and difficult-to-wipe sealing strip, which is marked with the product name, serial number, sampling location, sampling person.

10 Sampling sheet

After the sample is obtained, the person in charge of sampling shall fill in the sampling sheet. The sampling sheet shall include at least the following:

- a) Sample number;
- b) Lime type;
- c) Lot number;
- d) Sampling date;
- e) Sampling location;
- f) The quantity of samples;
- g) Sampling person.

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