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JC

**BUILDING MATERIALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JC/T 620-2021

Sampling method for lime

石灰取样方法

(English Translation)

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Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents"

This document replaces JC/T 620-2009.Compared with JC/T 620-2009, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) ADD the scope (see Chapter 1);
- b) In terms and definitions, CANCEL the "batch", "batch size", "number";
ADD the "automatic sampling" (see Chapter 2);
- c) CANCEL the "batch size" (Chapter 4 of the 2009 edition);
- d) In the sampling tools, ADD the automatic sampler; MOVE the lime sampling tube and diagram of sampling shovel into the informative appendix A; MODIFY the diameter of sampling tube (see Chapter 4; 5.1 of the 2009 edition);

- e) COMBINE the sampling site and sampling location; MODIFY the requirements for sampling location (see Chapter 5; 5.2 and 5.3 of the 2009 edition);
- f) MODIFY the "sampling method" into "sampling procedure"; MODIFY the classification of sampling locations (see Chapter 7; 5.5 of the 2009 edition);
- g) MODIFY the packaging and storage (see Chapter 9; 5.7 of the 2009 edition);
- h) ADD the Appendix A.

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.

3.4

Composite sample

A sample, which is obtained by taking the specified volume of all the unit lime samples, that are obtained from an inspection lot, after uniformly and thoroughly mixing them.

4.1 Material of sampling tool

The sampling tools shall be made of materials, that do not chemically react with lime, such as stainless steel.

4.4 Autosampler

Used for automatic sampling of powdered lime. Refer to Appendix A.3 for commonly used autosamplers.

5.1 The sampling site shall be representative. The sampling shall not be carried out in rainwater OR in a heavily polluted environment.

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

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.

7.1 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.

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.

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.

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.