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Spodumene Concentrate

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Spodumene Concentrate

1 Scope

This Standard specifies the requirements, test methods, inspection rules, marking, packaging, transportation, storage, quality certificate and contract (or order form) content of spodumene concentrate.

This Standard is applicable to spodumene concentrate, which is obtained through various mineral processing methods and enrichment. The spodumene concentrate has been extensively applied to the glass and ceramic industry, and the production of various chemical products of lithium.

2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this Standard.

YS/T 509.1 Methods for Chemical Analysis of Spodumene and Lepidolite Concentrates - Determination of Lithium Oxide, Sodium Oxide and Potassium Oxide Contents - Flame Atomic Absorption Spectrometric Method

YS/T 509.5 Methods for Chemical Analysis of Spodumene and Lepidolite Concentrates - Determination of Ferric Oxide Content - O-phenanthroline Photometric Method and EDTA Complexometric Method

YS/T 509.6 Methods for Chemical Analysis of Spodumene and Lepidolite Concentrates - Determination of Phosphorus Pentoxide Content - The Molybdenum Blue Photometric Method

YS/T 509.8 Methods for Chemical Analysis of Spodumene and Lepidolite Concentrates - Determination of Calcium Oxide and Magnesium Oxide Content - Flame Atomic Absorption Spectrometric Method

YS/T 509.10 Methods for Chemical Analysis of Spodumene and Lepidolite Concentrates - Determination of Manganous Oxide Content - Persulfate Oxidation Photometric Method

3 Requirements

3.1 Product Classification

5.4.1 Adopt intubation method (plastic tube or stainless-steel tube) to evenly take samples from each batch of products.

5.4.2 In terms of sacked products, if the weight of each batch of the same grade of concentrate products is over 10 t, take sample sacks in accordance with 10% of the number of sacks; if the weight of each batch of the same grade of concentrate products is below 10 t, take sample sacks in accordance with 20% of the number of sacks. Unpack all the taken sample sacks; adopt intubation method to take samples sack by sack. The weight of the taken sample shall be not less than 2,000 g. After mixing it up, split it into around 500 g. Then, divide it into three parts; split them into around 200 g for chemical analysis. Samples used for chemical analysis need to be smashed to less than 0.074 μm .

5.4.3 In terms of the sampling of bulk concentrate products, take samples in accordance with plum flower-shaped distributed points. Then, in accordance with the stipulations in 5.4.2, respectively prepare the samples.

5.5 Determination of Inspection Result

5.5.1 When the result of chemical composition analysis is disqualified, it is allowed to re-take samples (or double the samples) to conduct re-inspection of the disqualified items. If the samples still fail in one of the items in the re-inspection result, then, this batch of products shall be determined as disqualified.

5.5.2 When the samples are disqualified in granularity inspection, then, this batch of products shall be determined as disqualified.

5.5.3 When the samples are disqualified in moisture inspection, then, this batch of products shall be determined as disqualified.

5.5.4 When the samples are disqualified in appearance quality inspection, then, this batch of products shall be determined as disqualified.

6 Packaging, Marking, Transportation, Storage and Quality Certificate

6.1 Packaging, Transportation and Storage

Products may be packed in sacks or bulk. The specific mode of packaging shall be determined in accordance with the demand-side's demands. During the transportation and storage, products shall be protected from the rain.

6.2 Marking

6.2.1 If products are shipped in sacks, on each sack, the following shall be indicated:

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