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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 28652-2012

High quality anhydrous potassium fluoride

高品质无水氟化钾

(English Translation)

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Foreword

This standard Chapter 7 and Chapter 8 and Chapter 9 8.1,8.3,8.4 content is mandatory, the rest are recommended.

This standard was drafted in accordance with rules GB/T 1.1-2009 given.

The standard proposed by China Petroleum and Chemical Industry Federation.

This standard by the National Standardization Technical Committee chemical inorganic chemicals branch (SAC/TC63/SC1).

This standard was drafted. CNOOC Tianjin Chemical Research & Design Institute, Xinxiang Yellow River Fine Chemical Co., Ltd., Zhejiang Chemical Research Institute Ltd., Shandong-fluoro New Materials Co., Ltd., Zhejiang fluorescent Chemical Co., Ltd. of Xinxiang City Shengwei biological, chemical stocks Fluoride Limited copies.

1 Scope

The standard provides high-quality requirements of anhydrous potassium fluoride, test methods, inspection rules, marking, labeling, packaging, transportation, storage, and security.

This standard applies primarily as glass engraving agent, electroplating auxiliaries, welding flux, pesticides, organic fluorinating agent, the catalyst, Anhydrous potassium fluoride high quality absorbent (moisture absorption) and the like.

2 Normative references

The following documents for the application of this document is essential. For dated references, only applies to the version dated paper Pieces. For undated references, the latest edition (including any amendments) applies to this document.

GB 190-2009 dangerous goods packaging logo GB/T 191-2008 Packaging Pictorial signs GB/T 6678 General Principles for Sampling Chemical Products GB/T 8170 rounding off means about rules and determining limiting values GB/T 27813-2011 anhydrous potassium fluoride Analysis Molecular formula and molecular weight 3 Molecular formula. KF Molecular weight. 58.10 (according to 2007 international relative atomic mass)

4 Requirements

4.1

Appearance. white crystal or spherical particles.

4.2

Test Method for detecting high-quality indicators of anhydrous potassium fluoride required by this standard shall comply with the technical requirements of Table 1.

Table 1 Technical Requirements

project

index

First grade Qualified Potassium fluoride (KF) w /% $\geq$ 99.5 99.3 Chloride (based on Cl) w /% $\leq$ 0.05 0.05 Loss on ignition w /% $\leq$ 0.2 0.2 the free acid or free base (In terms of HF) w /% $\leq$ 0.05 0.05 (As KOH) w /% $\leq$ 0.05 0.1 Sulfate (in terms of SO₄) w /% $\leq$ 0.1 0.2 Fluoro-silicate (as SiO₂) w /% $\leq$ 0.01 0.01 TABLE 1 (cont.) project index First grade Qualified Arsenic (As) w /% $\leq$ 0.0005 0.0005 Iron (Fe) w /% $\leq$ 0.0005 0.002 Lead (Pb) w /% $\leq$ 0.0005 0.001 Chromium (Cr) w /% $\leq$ 0.0005 0.0005 Silicon (Si) w /% $\leq$ 0.002 0.005 Boron (B) w /% $\leq$ 0.0005 0.001 Calcium (Ca) w /% $\leq$ 0.0005 0.001 Nickel (Ni) w /% $\leq$ 0.0003 0.0005

5.1 Visual inspection

In natural light, the appearance was visually determined in a white plastic plate.

5.2 Determination of potassium fluoride content

The results were measured and calculated according to a predetermined GB/T 27813-2011 Chapter 5.

5.3 Determination of chloride content

The results were measured and calculated as specified in Chapter 6 GB/T 27813-2011.

5.4 Determination of loss on ignition

The results were measured and calculated as specified in Chapter 7 GB/T 27813-2011.

5.5 Determination of free acid or free base content

The results were measured and calculated according to the provisions of Chapter 8 GB/T 27813-2011.

5.6 Determination of the sulfate content

The results were measured and calculated according to a predetermined GB/T 27813-2011 Chapter 9.

5.7 Determination of the content of fluorosilicate

The results were measured and calculated according to a predetermined GB/T 27813-2011 chapter 10.

5.8 Determination of arsenic content, iron content, lead content, the chromium content, silicon content, boron content, calcium content and nickel content the results were measured and calculated according to the provisions of Chapter 12 GB/T 27813-2011.

6 Inspection Rules

All items specified index of 6.1 as standard factory inspection items should be tested batches.

6.2

with the same level of the same material, substantially same production conditions, the same team or continuous production of high-quality production of anhydrous potassium fluoride Batch. Each batch of products is not more than 30t.

Unit 6.3 determines the number of samples required to GB/T 6678's. When sampling, the

sampler pouch obliquely from above to the insertion depth of material 3/4 of the sampling. The collected samples were placed in a sealed plastic container and mix by quartering reduced to less than 500g, dispensed into two clear Clean, dry plastic bottle (or plastic bags), the sealing. Bottle or bag sticker stating. manufacturer name, product name, grade, batch number, sampling Date and sample's name. As a laboratory sample, and a second copy for future reference, the retention time by the manufacturer according to the actual needs.

6.4

If the test results do not meet the requirements of this standard index, since twice the amount should be re-packaging samples reinspection, the reinspection results i.e.

So that only an indicator does not meet the requirements of this standard, then the entire batch of product is substandard.

Rounding value comparison method using 6.5 GB/T 8170 test results determines whether a predetermined standard.

7 Signs and labels

7.1

high-quality solid anhydrous potassium fluoride should be clearly marked packaging, including. the production name and address, product name, grade, having a net Quantity, batch or production date, and the standard number "toxic substances" in the labeling GB 190-2009, GB/T in a predetermined 191-2008 the "fear of the sun", "afraid of the rain" logo.

7.2

each batch of high quality anhydrous potassium fluoride should be accompanied by a certificate of quality. Include. manufacturer's name and address, product name, grade, Net content, lot number or production date, the standard number.

8 Packaging, transport and storage

Anhydrous potassium fluoride 8.1 high quality packaging in three ways.

8.1.1

woven Packing. a single layer of polyethylene plastic film packaging bags, using heat sealing. Packaging plastic bags with dimensions Nylon thread or other line of comparable quality sewn securely.

8.1.2

cardboard drum. the packaging with double polyethylene plastic film bag, an inner layer and an outer plastic film bag, respectively dimensional plastic film bag Nylon thread or other solid mass equivalent Zhakou line. Using cardboard packaging, firmly capped and ferrule.