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Inorganic chemicals for industrial use – General method for the determination of water insoluble matter

无机化工产品中水不溶物测定通用方法

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Foreword

Appendix A of this Standard is informative.

This Standard was proposed by China Petroleum and Chemical Industry Association.

This Standard shall be under the jurisdiction of the National Standardization Technical Committee - Chemical Inorganic Chemicals Sub-Committee (SAC/TC 63/SC 1).

Main drafting organizations of this Standard: Guangxi Hezhou Cologne Powder Co., Ltd., CNOOC Tianjin Chemical Research & Design Institute, Fluoride Chemicals Co., Ltd., Hubei Xingfa Chemicals Group Co., Ltd.

Main drafters of this Standard: Li Qihong, Zhang Xiaoyan, Wang Lulu, Xue Xujin, Wan Jinzhu.

This Standard is issued for the first time.

Inorganic chemicals for industrial use – General method for the determination of water insoluble matter

1 Scope

This Standard specifies the method summary, reagents and materials, instruments and apparatuses, analysis steps, and result calculation FOR inorganic chemicals for industrial use – general method for the determination of water insoluble matter.

This Standard applies to the determination of water insoluble matter content in inorganic chemical products. This Standard specifies the sand glass crucible method for the determination of non-alkaline water insoluble matter. When using this Standard to determine the water insoluble matter, the insoluble matter's mass that is obtained by the calculation of sample size and specification value MUST not be less than 1 mg.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 6682-2008 Water for analytical laboratory use - Specification and test methods (ISO 3696:1987, MOD)

3 Method summary

User water to dissolve the sample; adopt a suitable method to filter out the insoluble matter; use water to wash the residue, so that it is completely separated from the sample-body; after drying, use balance to weigh the mass of insoluble matter.

Appendix A

(Informative)

Pretreatment of sand glass crucible

A.1 Sand glass crucible is placed in 250 mL beaker; add hydrochloric acid solution (1 + 1) to completely immerse the sand glass crucible (it may also add nitric or sulfuric acid solution according to product standards); boil for 5 min - 10 min on electric furnace; cool down; hydrochloric acid is poured completely into waste collection bottle; then, add water until the sand glass crucible is completely submerged; boiled for 5 min - 10 min on electric furnace; cool down; take out for later use.

A.2 Sand glass crucible is placed on a sand filter flask; use hydrochloric acid solution (1+1) to wash (it may also add nitric or sulfuric acid solution according to product standards); then, use water to wash until that, using the wide-range pH test paper to detect, the eluent is near to neutral.

_____ **END** _____

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