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HG

CHEMICAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 71.100.99

G 74

Filing No.: 34570-2012

HG/T 2976-2011

Replacing HG/T 2976-1999

Test method for attrition and abrasion of fertilizer catalysts

化肥催化剂磨耗率的测定

Issued on: December 20, 2011

Implemented on: July 01, 2012

Issued by: Ministry of Industry and Information Technology of PRC

Table of Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Principle	4
4 Instrument.....	4
5 Sampling	5
6 Measurement steps.....	5
7 Result calculation	5

Foreword

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

This standard replaces HG/T 2976-1999 "Test method for attrition and abrasion of fertilizer catalysts". Compared with HG/T 2976-1999, the main technical changes are as follows, except for editorial changes:

- DELETE the balance and micro-printer configured for the attrition meter (4.3 ~ 4.4 of the 1999 edition);
- MODIFY the drying temperature of sample preparation (see 5.2; 5.2 of the 1999 edition).

This standard refers to ASTM D 4058-1996 "Standard test method for attrition and abrasion of catalysts and catalyst carriers".

This standard was proposed by the China Petroleum and Chemical Industry Federation.

This standard shall be under the jurisdiction of the Fertilizer Catalyst Sub-Technical Committee of the National Technical Committee for Standardization of Fertilizers and Soil Conditioners (SAC/TC 105/SC 1).

Drafting organizations of this standard: Nanhua Group Research Institute, Dalian Intelligent Testing Machine Factory.

The main drafters of this standard: Xue Yongzhen, Yu Zhiyong, Zeng Fei.

This standard was first issued in April 1983. It was adjusted from a national standard to a chemical industry standard in May 1992. It was revised for the first time in April 1999. This is the second revision.

Test method for attrition and abrasion of fertilizer catalysts

1 Scope

This standard specifies the instrument, sampling, measurement steps, result calculation for the determination of the attrition rate of fertilizer catalysts.

This standard is applicable to the determination of the attrition rate of cylindrical, strip, amorphous, annular, spherical fertilizer catalysts.

2 Normative references

The following documents are essential to the application of this document. 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.

GB/T 6003.1 Test sieves of metal wire cloth

GB/T 6678 General principles for sampling chemical products

3 Principle

Place a certain mass of processed specimen in the grinding cylinder of the abrasion tester. After rotating at a certain speed for a certain period of time, the sample is worn to produce particles. The results of the abrasion rate measurement are calculated, after sieving and weighing.

4 Instrument

Main parameters of the abrasion tester (equipped with a mechanical sieving instrument):

- Inner diameter of grinding cylinder: $\Phi 120$ mm;
- Length of grinding cylinder: 150 mm;
- Inner baffle of grinding cylinder: 1 piece, 150 mm long, 18 mm high;
- Grinding cylinder speed: 60 r/min;
- Grinding time: 30 min.

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