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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3350-2012

Determination of free phenol in phenolic resin adhesives used in building for import and export

进出口建筑用酚醛树脂粘接剂中游离苯酚的测定

(English Translation)

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard is the first law drafted by. People's Republic of China, Xiamen CIQ.

This standard is the first major law drafter. Lai Ying, Lin Rui, Li Rong specifically, Lin Haixia, Ge Xiuxiu, Cai Yanping, Lin Weijing.

1 Scope

This standard specifies the construction and export three measurement methods for phenolic resin adhesive free phenol, including a first gas chromatography - mass spectrometry Method (GC-MS), high performance liquid chromatography second method (HPLC) and the third method ultraviolet spectrophotometry. Wherein the gas chromatography - mass spectrometry for the arbitration law.

This standard applies to the determination of phenol content and export building with phenolic resin adhesive free.

2 Normative references

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

Laboratory use specifications and test methods GB/T 6682 Analysis

3 The first gas chromatography - mass spectrometry (GC-MS)

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3.1 Principle

After the sample with methanol ultrasonic extraction, the extract was filtered, and gas chromatography - mass spectrometry and validation, external standard.

3.2 Reagents and materials

Unless otherwise specified, the reagents were of analytical grade water as a water line with GB/T 6682 regulations.

3.2.1
Methanol. chromatographically pure.

3.2.2
Phenol (CAS No. 108-95-2). purity >=98%.

3.2.3
Standard stock solution (1000mg/L). Weigh accurately phenol (3.2.2) 0.10g (accurate to 0.0001g), placed in 100mL capacity Flask, diluted with methanol (3.2.1) to the mark, shake well. Standard stock solution dark storage at 0 °C ~ 4 °C conditions, should be heated before use to 25 °C ± 5 °C.

3.2.4
standard solution. Pipette appropriate amount of standard stock solution (3.2.3), diluted to standard working solution with a suitable concentration of methanol (3.2.1).

3.2.5
The organic phase filter. 0.22μm.

3.3 Instruments and equipment

3.3.1
Gas chromatography - mass spectrometry. with electron impact ionization (EI).

3.3.2
vortex mixer.

3.3.3
ultrasonic cleaner (power >=220W).

3.3.4
centrifuge. speed of not less than 4000r/min.

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3.3.5

Electronic balance. a sense of the amount of 0.1mg.

3.4.1 Extraction

Said sample after mixing learn about 0.50g (accurate to 0.0001g), placed in 10mL tube with a stopper colorimetric, diluted with methanol (3.2.1) to

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