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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3354-2012

Determination of acetone and hexane in adhesive used in building for import and export. Gas chromatography-mass spectrometry

进出口建筑用粘接剂中正己烷、丙酮的测定 气相色谱-质谱法

(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 was drafted. People's Republic of China, Shenzhen CIQ, Shenzhen Inspection and Quarantine Science Research Institute.

1 Scope

This standard specifies the import and export construction adhesive with n-hexane, acetone content by gas chromatography - mass spectrometry.

This standard applies to the import and export construction adhesive with n-hexane, acetone content was measured. Determination of the lower limit. acetone 0.05g/kg, Hexane 0.010g/kg.

Principle 2

Solvent extraction mode, the sample was quantitatively dissolved in methanol. Using headspace - gas chromatography - mass spectrometry and acetone Hexane, internal standard.

3 Reagents and materials

3.1

Carrier gas. helium, purity greater than 99.999%.

3.2

Anhydrous Methanol. chromatographically pure.

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3.3
acetone. chromatography.

3.4
hexane. chromatographically pure.

3.5
Internal standard. n-octane, chromatography. Sample or other compounds that do not exist, and the compound capable of other components on the chromatogram End Full separation.

3.6
internal standard working solution. Weigh 0.25g standard sample taken of the internal standard (accurate to 0.0001g), placed in 250mL volumetric flask Dissolved in methanol capacity. The solution containing the internal standard compound is 1.00g/L.

3.7
standard solution stock solution (using now). Weigh accurately a standard sample of acetone and n-hexane 0.25g (accurate to 0.0001g) placed 250mL volumetric flask, dissolved in methanol to volume. The acetone solution containing 1.0g/L, hexane 1.0g/L.

3.8
standard working solution (using now). Pipette respectively 100μL, 200μL, standard solution liquor 500μL, 1000μL of (3.7) to Add 1mL of internal standard working solution (3.6) in 10mL volumetric flask with methanol to volume, as the working standard solution.

4 Instruments and equipment

4.1
Gas chromatography - mass spectrometry (GC-MS), with EI source.

4.2
Capillary Column. (5% - phenyl) - methyl silicone capillary column, 30m x 0.25mm x 0.25μm, or equivalent person.

4.3
air injector.

4.4
bottles. 20mL.

4.5
micro syringe. 10μL.

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4.6

Balance. Precision 0.1mg.

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