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**Test method for modifier content of SBS modified asphalt for
road engineering**

道路用苯乙烯-丁二烯-苯乙烯嵌段共聚物（SBS）改性沥青改性剂含量检测方法

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Styrene-butadiene-styrene block copolymer for road use (SBS) Modified Asphalt Modifier Content Detection Method

1 Scope

This document describes the method for determining the content of SBS modifier in SBS modified asphalt for road use by chemical titration, including the testing equipment.

Reagents, SBS modified asphalt samples, test steps and result calculation, and test report.

This document is applicable to the detection of SBS modifier content in SBS modified asphalt for road use.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

JTGE20 Test procedures for asphalt and asphalt mixtures in highway engineering

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 SBS modifier styrene-butadiene-styrenemodifier

Styrene-butadiene-styrene block copolymer (SBS) additive to improve the pavement performance of petroleum asphalt.

3.2 SBS modified asphalt

Asphalt binder with improved performance by adding a certain proportion of SBS modifier, stabilizer or other additives.

3.3 SBS modifier content

The mass fraction of SBS modifier and road petroleum asphalt in SBS modified asphalt.

3.4

A modified asphalt sample with a known SBS modifier content prepared according to the SBS modified asphalt production process.

3.5 Unsaturation

The content of carbon-carbon double bonds in SBS modifier.

4 Symbols

The following symbols apply to this document.

A --- Unsaturation, the unit is grams per hundred grams (g/100g).

CSBS---The content of SBS modifier in SBS modified asphalt, expressed as percentage (%).