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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11964-2008

Replacing GB/T 11964-1989

Test method for loss on heating of asphalt

石油沥青蒸发损失测定法

(English Translation)

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Foreword

This revised standard adopts the American Society for Testing and Materials standard ASTM D6-95 (2000) "Oil and bitumen heating loss test compound Fixed "(in English).

The Standard (2000) redrafted according ASTM D6-95.

Suitable for China's national conditions, this standard has been partially modified using ASTM D6-95 (2000) time. This standard ASTM D6-the main difference between 95 (2000) as follows.

- This standard uses the International System of Units, by deleting ASTM D6-95 non-SI units in parentheses (2000);
- The standard oven comprises about 5.1 by deleting the contents of FIG. 1, used in line with the technical requirements of the oven GB/T 5304 stipulated;
- The standard prescribed by the informative Appendix A thermometer specifications;
- Deletion of 9.1 and 9.2, follow the GB/T 11964-1989 precision requirements;
- Increasing the sample after evaporation of the quality score calculation formula.

This standard replaces GB/T 11964-1989 "asphalt Determination of evaporation loss." This standard compared with GB/T 11964-1989 the main changes are as follows.

- Chapter 1, added "This standard does not involve safety regulations on use standard user has the responsibility to develop an appropriate security prior to use Full application procedures ";
- Chapter 4 adds meaning and purpose;
- The GB/T 11964-1989 5.1 in Chapter 5, "maximum heating temperature should not

exceed 150 °C" to "should be at the lowest possible temperature by heating the sample and the degree of stirring slowly to avoid foam sample, the maximum heating temperature not higher than the softening point of the sample estimate 90 °C, the heating time should be less than 30min. " Appendix A of this standard is an informative annex.

This standard by the National Standardization Technical Committee on products and lubricant oil (SAC/TC280) proposed.

The standard by the China University of Petroleum (East China) Heavy Oil Research Institute.

This standard was drafted. China University of Petroleum (East China) Heavy Oil Research Institute.

1 Scope

This standard specifies the determination of the quality of petroleum asphalt is heated under specified conditions (excluding water) change.

This standard applies to petroleum asphalt.

This standard does not involve the use of relevant safety requirements, standards, responsibility of the user to develop appropriate safety procedures before using the application.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 5304 Asphalt Thin Film Oven Test Method GB/T 11147 bitumen sampling method

3 Method Summary

The sample is placed in a 55mm diameter dish containing the sample, in an oven 163 °C ± 1 °C in holding 5h. Before and after the sample is calculated evaporation test substance the amount of change in accounting for the mass fraction of the sample.

4 Significance and Use

The method is characterized by determining the nature of the change in the quality of petroleum pitch under standard test conditions.

5 Apparatus and materials

5.1

thermostatic oven. The specified GB/T 5304 oven or other oven meet the appropriate technical conditions.

5.2

Thermometer. 155 °C ~ 170 °C, see Appendix A provision.

5.3

Sheng-like dish. flat cylindrical dish, the inner diameter of 55mm ± 1mm, depth 35mm ± 1mm, made of metal or glass.

5.4

Balance. a sense of the amount of 0.001g.

6 Test preparation

6.1

according to GB/T 11147 sampling.

6.2

sufficient amount of sample is placed in a suitable vessel and heated to a fluid state, and stir well. Should be heated at a temperature as low as possible Samples and slowly stirred to avoid foam sample, the maximum heating temperature not higher than the softening point of the sample is estimated that 90 °C, the heating time should be less than 30min. As the sample contains water, the water should be off by a suitable method, or take a free water sample.

6.3

Weighing clean, dry Sheng-like dish, weighing accuracy 0.001g, melted 50g ± 0.5g sample asphalt poured into a sample dish, and cooled to room After the temperature weighing accuracy of 0.001g.

7 Test procedure

7.1

to adjust the level of the oven, so that rotation of the turntable in the horizontal plane, the thermometer hung on the rack turntable shaft, the mercury ball is in the bottom of the turntable the above 6mm office. Thermometers anchor position and distance from the outer edge of the disk center should be equal. Oven maintained at a temperature of 163 °C ± 1 °C.

7.2

The two samples containing specimens containing dish on the oven dial and close the oven door, turntable speed 5r/min ~ 6r/min. when Inside the oven when the temperature rises to 162 °C start time, 5H duration of the test, the total time in the oven the sample test time should not exceed