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# GB

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### Coal Base Shale Oil

煤基伴生油页岩油

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# Coal Base Shale Oil

## 1 Scope

This Standard specifies the product category, technical requirements, test methods, inspection rules, marking, packaging, transportation and storage of coal base shale oil.

This Standard is applicable to the production and marketing of coal base shale oil. Other types of shale oil can take this as a reference.

## 2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. The latest version (including all the modifications) of references without a specified date is also applicable to this Standard.

GB/T 260 Test Method for Water in Petroleum Products - Distillation Method

GB/T 261 Determination of Flash Point - Pensky-Martens Closed Cup Method

GB/T 265 Petroleum Products - Determination of Kinematic Viscosity and Calculation of Dynamic Viscosity

GB/T 387 Dark Petroleum Products - Determination of Sulphur Content - Tubular Oven Method

GB/T 508 Petroleum Products. Determination of Ash

GB/T 510 Petroleum Products. Determination of Solidification Point

GB/T 511 Petroleum Products and Additives - Method for Determination of Mechanical Admixtures

GB/T 1884 Crude Petroleum and Liquid Petroleum Products - Laboratory Determination of Density - Hydrometer Method

GB/T 3536 Petroleum Products - Determination of Flash and Fire Points - Cleveland Open Cup Method

GB/T 4756 Method for Manual Sampling of Petroleum Liquids

GB 30000.7 Rules for Classification and Labelling of Chemicals - Part 7: Flammable Liquids

SH 0164 Petroleum Products Packaging, Storage, Transportation and Delivery

Acceptance Rules

## 3 Terms and Definitions

The following terms and definitions are applicable to this document.

### 3.1 Oil Shale

Oil shale refers to a kind of sedimentary rock of kerogen and a little asphaltene, which are distributed in inorganic mineral substances.

### 3.2 Shale Oil

Shale oil refers to oil that is generated by oil shale through low temperature dry distillation.

### 3.3 Coal Base Shale Oil

Coal base shale oil refers to oil that is generated by oil shale that is symbiotic or concomitant with coal in coal stratum through low temperature dry distillation.

## 4 Product Category

Coal base shale oil (hereinafter referred to as shale oil) products shall be divided into 3 categories in accordance with density, which are respectively light-weight shale oil, medium-weight shale oil and heavy-weight shale oil.

Shale oil can be considered as fuel oil, raw material for the purpose of chemical engineering or refinery plant. If shale oil's Sulphur content is more than 0.5%, it shall not be used in an industrial burner that does not have a desulfurizer.

## 5 Technical Requirements

### 5.1 Light-weight Shale Oil

In accordance with its density, light-weight shale oil shall be divided into No. 1 and No. 2 light-weight shale oil. In accordance with its Sulphur content index, light-weight shale oil shall be divided into Grade-I and Grade-II light-weight shale oil. The mass of No. 1 and No. 2 light-weight shale oil shall respectively comply with the requirement in Table 1 and Table 2.

## 7.4 Model Inspection

Model inspection items are all the items that are stipulated in Table 1 ~ Table 6. Under the following circumstances, these items shall be inspected:

- a) Model inspection is needed in new product design and model appraisal, and trial production and model appraisal;
- b) Model inspection is needed in official production, when there are changes in raw materials, production process and equipment;
- c) Model inspection is needed in official production every half a year, or when a batch of raw materials are changed;
- d) Model inspection is needed after mass production is interrupted or suspended, and resumed;
- e) Model inspection is needed when a national or local quality supervision institution proposes the request for model inspection.

## 7.5 Determination Rules

In accordance with density, shale oil shall be divided into light-weight, medium-weight and heavy-weight shale oil. When shale oil respectively complies with all the technical requirements that are stipulated in Table 1 ~ Table 6, this batch of products shall be determined as qualified in that grade.

## 7.6 Re-inspection Rules

In the result of exit-factory inspection, if there are stipulations that do not comply with the technical indicators in Table 1 ~ Table 6, re-take a doubled size of samples for re-inspection in accordance with the stipulation in GB/T 4756. In the result of the re-inspection, if there is still an item that does not comply with the grade of technical indicators stipulated in this Standard, this batch of products shall be determined as unqualified in that grade.

# 8 Marking, Packaging, Transportation and Storage

Marking, packaging, transportation, storage and delivery acceptance shall comply with the stipulation in SH 0164.

# 9 Safety

The warning label and warning description of shale oil shall comply with the requirement in GB 30000.7. Product's safety requirements shall comply with the national Regulations on the Safety Administration of Dangerous Chemicals, and

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