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**Coal Based Fischer-Tropsch Synthesis –
Liquid Wax**

煤基费托合成 液体蜡

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Table of Contents

Forward.....	3
1 Scope	4
2 Normative References.....	4
3 Terms and Definitions.....	5
4 Product Classification.....	5
5 Technical Requirements and Test Methods.....	6
6 Inspection Rules.....	8
7 Labels, Package, Transportation and Storage.....	8
8 Safety	8

Forward

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by China National Coal Association.

This Standard shall be under the jurisdiction of China National Coal Standardization Technology Committee.

Drafting organizations of this Standard: Synfuels China Technology Co., Ltd., China Coal Research Institute Co., Ltd., Inner Mongolia Yitai Group Company Limited, Shanxi LuAn Mining Group Co., Ltd., Shenhua Group Co., Ltd., Institute of Coal Chemistry, Chinese Academy of Sciences.

Chief drafting staffs of this Standard: Li Ying, Ding Hua, Li Yongwang, Hao Xizhu, Xiao Yanning, Yuan Genle, Yang Yong, Lian Jinjing, Fan Guodong, Wang Dongfei, Zhang Huimin, and Luo Yunfei.

Coal Based Fischer-Tropsch Synthesis – Liquid Wax

1 Scope

This Standard specifies terms and definitions, product classification, technical requirements and test methods, inspection rules, labels, package, transportation, storage and safety of coal based fischer-tropsch synthesis – liquid wax.

This Standard is applicable to light liquid wax, heavy liquid wax, and crude liquid wax generated through the coal based fischer-tropsch synthesis process.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB 190 Labels for Packages of Dangerous Goods

GB/T 258 Determination of Acidity of Gasoline, Kerosene and Diesel Fuels

GB/T 260 Determination of Water Content in Petroleum Products

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

GB/T 3555 Petroleum products - Determination of Saybolt Color - Saybolt Chromometer Method

GB/T 4756 Petroleum Liquids - Manual Sampling

GB/T 6536 Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure

GB 13690 General Rules for the Classification and Hazard Communication of Chemicals

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

Flammable Liquids

SH 0164 Rules for the Packing, Storage, Transportation and Inspection upon Delivery of Petroleum Products

SH/T 0409 Determination of Aromatic Hydrocarbons in Liquid Paraffin (UV Spectrophotometric Method)

SH/T 0410 Determination of Normal Paraffin and in Liquid Paraffin and Carbon Number Distribution (Gas Chromatography)

SH/T 0630 Determination Method for Bromine Number and Bromine Index of Petroleum Products (Coulometric Method)

SH/T 0657 Standard Test Method for Trace Nitrogen in Liquid Petroleum Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection

SH/T 0689 Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons Motor Fuels and Oils by Ultraviolet Fluorescence

3 Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 Fischer-Tropsch synthesis

The reaction process, under certain temperature and pressure conditions, through the role of catalyst, the synthesis gas is converted into hydrocarbon products.

3.2 Liquid wax from coal based Fischer-Tropsch synthesis

The liquid hydrocarbons mixture that, taking Fischer-Tropsch synthesis diesel fraction as the raw material, is mainly consisted of the normal paraffins and obtained through the processing of oil products.

4 Product Classification

Liquid wax from coal based Fischer-Tropsch synthesis can be divided into three types:

- Light liquid wax: liquid hydrocarbon mixture consisting of C₁₀-C₁₄ normal paraffins;

6 Inspection Rules

6.1 Group-Batch

Under the condition that the raw material and production process are not changed, then each can of product is deemed as one batch.

6.2 Sampling

Sampling shall be conducted as per GB/T 4756; take 2L specimen for the purposes of inspection and reservation.

6.3 Exit-factory inspection

This product shall undergo exit-factory inspection, the items of which shall cover all items in Tables 1, 2, and 3.

6.4 Judgment rule

When all of the exit-factory inspection results conform to the technical requirements of Tables 1, 2 and 3, then such batch of products are judged to be qualified.

6.5 Re-inspection rule

If some exit-factory inspection results don't conform to the technical index of Tables 1, 2, and 3, then double amount of specimens shall be taken as per GB/T 4756, and be re-inspected; if some re-inspection results don't conform to the technical index of this Standard, then such product is judged to be disqualified.

7 Labels, Package, Transportation and Storage

Labels, package, transportation, storage, delivery and acceptance of the product shall be conducted as per SH 0164.

Liquid Wax from Coal Based Fischer-Tropsch Synthesis belongs to flammable liquid (according to the classification of GB 13690), its hazardous labels shall be made as per GB 13690, and GB 190.

8 Safety

Liquid Wax from Coal Based Fischer-Tropsch Synthesis belongs to flammable liquid specified in GB 13690, so the warning labels and instructions shall conform to the provisions of GB 30000.7. The safety requirements of product shall conform to

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Contact: Wayne Zheng, Sales@ChineseStandard.net

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