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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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GB 1922-2006

Replacing GB 1922-1980

Petroleum Solvents for Paints and Cleaning

油漆及清洗用溶剂油

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Petroleum Solvents for Paints and Cleaning

1 Scope

This Standard specifies the requirements and test methods, sampling, marking, packaging, transportation and storage of the 5 solvent oils usually composed of petroleum distillates.

The products specified in this Standard are mainly used for paint solvents (or diluents), dry cleaning solvents, cleaning agents for metal parts. See Appendix B for the intended use of the various solvent oils.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 259 Petroleum Products – Determination of Water-Soluble Acids and Alkalis

GB/T 260 Test Method for Water in Petroleum Products

GB/T 261 Petroleum Products – Determination of Flash Point (Closed Cup Method)
[GB/T 261-1983, neq ISO 2719:1973]

GB/T 511 Petroleum Products and Additives - Determination of Mechanical Impurities (Gravimetric Method)

GB/T 1884 Crude Petroleum and Liquid Petroleum Products - Laboratory Determination of Density (Hydrometer Method) (GB/T 1884-2000, eqv ISO 3675-1998)

GB/T 1885 Petroleum Measurement Tables (GB/T 1885-1998, eqv ISO 91-2:1991)

GB/T 3143 Color Determination Method of Liquid Chemicals (Hazen Unit - Platinum-Cobalt Scale)

GB/T 3555 Petroleum Products - Determination of Saybolt Color (Saybolt

3 Classification of Products

This Standard divides the solvent oil for paint and cleaning into 5 designations according to the distillation range of the product:

No.1 – Medium boiling point;

No.2 – High boiling point and low dry point;

No.3 – High boiling point;

No.4 – High boiling point and high flash point;

No.5 – Kerosene type.

The solvent oil with high boiling point is further divided into 3 types according to the aromatics content:

Ordinary type – aromatic content (volume fraction) 8%~22%;

Medium aromatic type – aromatic content (volume fraction) 2%~8%;

Low aromatic type – aromatic content (volume fraction) 0%~2%.

The medium boiling point and kerosene type are divided into two types, such as medium aromatic type and low aromatic type.

4 Product Identification

The identifications of solvent oil products for paint and cleaning are as follows:

Designation	+	Type	+	Product name
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For instance: No.3 ordinary type solvent oil for paint and cleaning.

5 Requirements and Test Methods

The technical requirements and test methods of solvent oil for paint and cleaning can refer to Table 1.

6 Sampling

It shall be performed as per GB/T 4756; take 3L of sample for inspection and later-user.

Appendix B

(Informative)

Intended Uses of Various Solvent Oils

B.1 Intended use

Various solvent oils specified in this Standard can be used as paint solvents (or diluents). The medium-aromatic and low-aromatic types of solvents can also be used as the cleaning agents (degreasing agents) for the coated and uncoated metal parts; however, the compatibility between the coating and solvent oil shall be checked before use.

B.1.1 No.1 (medium boiling point) products are mainly used as quick-drying paint solvents (or diluents). It can also be used as the woolen wool degreasing agents and cleaning agents for precision instrument. Its use is characterized by short drying time and fast volatilization rate.

B.1.2 No.2 (high boiling point and low drying point) products can be used as paint solvents (or diluents), and dry-cleaning agents. When it is used for dry-cleaning and cleaning, it is not easy to leave traces on the washing.

B.1.3 No.3 (High boiling point) products are mainly used as the paint solvents (diluents) and dry-cleaning agents. When it is used as paint solvents (or diluents), it has a slower evaporation rate and stronger dissolving ability than No.1 products. It is also widely used for cleaning the metal surface.

B.1.4 No.4 (High boiling point and high flash point) products is used in places where working environment requires high flash points for paint, degreasing agents, dry-cleaning agents.

B.1.5 No.5 (kerosene type) is suitable for the degreasing solvents of the metal surface. It has the characteristics of low volatility, high flash pint, small environmental pollution, and easy recycling. It is especially suitable for removing the rust-proof grease form the bearings and metal parts.

B.2 Dangerous tips of solvent oil

Various solvent oils specified in this Standard have different levels of volatility and are flammable and explosive dangerous goods. The container must be sealed, away from the heat and fire, and avoid directly exposing to the sunlight. When using indoors, sufficient ventilation must be ensured to prevent vapors from accumulating to reach the explosive limits. Avoid prolonged inhalation of its vapors and avoid prolonged or

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