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

GB/T 12494-2025

Replacing GB/T 12494-1990

White oil for food-machinery

食品机械专用白油

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 12494-1990 "White Oil for Food Machinery". Compared with GB/T 12494-1990, the main differences are structural adjustments and... Aside from editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the 1990 edition);
- b) The technical requirements for "flash point (open cup)" have been changed (see Table 1, Chapter 3 of the 1990 edition);
- c) The technical requirements for "pour point" have been changed (see Table 1, Chapter 3, 1990 edition);
- d) The technical requirements and test methods for "Color/Seybert Color Code" have been changed (see Table 1, Chapter 3, 1990 edition);
- e) The technical requirements for "Polycyclic Aromatic Hydrocarbons, Ultraviolet Absorbance" have been revised (see Table 1, Chapter 3 of the 1990 edition);
- f) Added technical requirements and test methods for "heavy metals" (see Table 1);
- g) The technical requirements and test methods for "lead" have been added (see Table 1);
- h) The technical requirements and test methods for "arsenic" have been added (see Table 1). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Petroleum Products and Lubricants (SAC/TC280). This document was drafted by: Zhejiang Zhengxin Petroleum Technology Co., Ltd., CNOOC Gas (Taizhou) Petrochemical Co., Ltd., and Sinopec Shanghai Gaoqiao Petrochemical Co., Ltd. Petrochemical Co., Ltd., Sinopec (Dalian) Petrochemical Research Institute Co., Ltd. The

main drafters of this document are. Du Yunming, Ju Meihua, Quan Qinglie, Lin Rongxing, Wang Shiyu, Lu Wenting, and Gu Shanlong. The release history of this document and the document it replaces is as follows:

---First published in.1990 as GB/T 12494-1990;

---This is the first revision. Special white oil for food machinery Warning

---The products described in this document may be hazardous during production, storage, transportation and use if appropriate precautions are not taken. This document is not intended to provide advice on all safety issues related to this product. Users are responsible for taking appropriate safety and health precautions. Ensure compliance with the conditions stipulated by relevant national laws and regulations.

1 Scope

GB/T 12494-2025 is the Chinese national standard on white oil for food-machinery, in the field of petroleum and related technologies. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 5 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2026.

Classification: ICS 75.140, CCS E42. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the product classification, technical requirements and test methods, sampling and batching, marking, packaging, and transportation of white oil for food machinery. Storage and delivery acceptance. This document applies to white oil specifically for food machinery, produced from petroleum distillates through dewaxing, hydrorefining, or chemical refining. The product is suitable for cooling, sealing, and lubrication of processing machinery and equipment that do not directly contact food, such as food processing, beverage processing, and drinking water transportation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 259 Determination of water-soluble acids and bases in petroleum products

GB/T 260 Determination of water content in petroleum products by distillation method

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

GB/T 511 Petroleum and Petroleum Products and Additives - Determination of Mechanical Impurities

GB/T 3535 Determination of Pour Point of Petroleum Products

GB/T 3536 Determination of flash point and ignition point of petroleum products - Cleveland open cup method

GB/T 3555 Petroleum Products - Seyport Color Determination - Seyport Colorimeter Method

GB/T 4756 Manual Sampling Method for Petroleum Liquids

GB 5009.12 National Food Safety Standard - Determination of Lead in Food

GB 5009.74 National Food Safety Standard - Test for Limits of Heavy Metals in Food Additives

GB 5009.76 National Food Safety Standard - Determination of Arsenic in Food Additives

GB/T 5096 Test method for corrosion of copper strips in petroleum products

GB/T 11081 Determination of Ultraviolet Absorbance of White Oil

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.