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**Petroleum products — Lubricating  
greases — Sampling of greases**

*Produits pétroliers — Graisses lubrifiantes — Échantillonnage des  
graisses*



Reference number  
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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

This document was prepared to provide instructions for:

- preparing grease samples intended for production testing at the manufacturing plant stage;
- taking samples at the delivery site.

The methods and the ways of preparing samples differ depending on whether the sampling is performed on manufactured lots in a blending plant or on the delivery site.

ISO 3170 covers the manual sampling of liquid/semi-liquid hydrocarbons from a tank, a drum or a pipeline by manual means but does not include the sampling of greases.

ASTM D 4057<sup>[1]</sup> and DIN 51750-3<sup>[2]</sup> include specific procedures for sampling of greases. ASTM D 4057 includes specific provisions for sampling greases at the manufacturing stage.



# Petroleum products — Lubricating greases — Sampling of greases

**WARNING** — The use of this document can involve hazardous materials, operations and equipment. This document does not purport to address all of the safety problems associated with its use. It is the responsibility of users of this document to take appropriate measures to ensure the safety and health of personnel prior to the application of the standard, and to determine the applicability of any other restrictions for this purpose.

## 1 Scope

This document specifies methods for obtaining samples of lubricating grease from production lots or shipments and gives instructions for inspecting greases in sales packages.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3170:2004, *Petroleum liquids — Manual sampling*

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

## 4 General

The procedures described in this document are quite general because a wide variety of conditions are often encountered, and they may be modified to satisfy particular specifications.

Users shall proceed in accordance with ISO 3170:2004, Clause 6 and 7.2 pertaining to precautions, safety, care and cleanliness, except where there is conflict with the instructions given in this document.

## 5 Sampling equipment

### 5.1 General

The sampling equipment described hereafter shall be chosen based on the observations done on the samples (control of the homogeneity):

- according to the size and type of container from which the sample is drawn; and
- according to the product and size of the sample.