

International Standard

ISO 12921

Petroleum products and lubricants — Determination of the mechanical stability of greases in presence of water iTeh Standards

Produits pétroliers et lubrifiants — Détermination de la stabilité mécanique des graisses en présence d'eau

Document Prev

ISO 12921-2024

https://standards.iteh.ai/catalog/standards/iso/a5dbbef7-5b74-402 -a0e5-df9a336527ed/iso-12921-2024

First edition 2024-01

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 12921:2024

https://standards.iteh.ai/catalog/standards/iso/a5dhbef7-5b74-4024-a0e5-df9a336527ed/iso-12921-2024



COPYRIGHT PROTECTED DOCUMENT

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org

Website: <u>www.iso.org</u> Published in Switzerland

ISO 12921:2024(en)

Contents		Page
Fore	eword	iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	1
5	Significance of the test	1
6	Sampling	2
7	Materials	2
8	Reagents	
9	Operating procedure	2
10	Calculation	3
11	Expression of the result	3
12	Test report	3
13	Precision 13.1 General 13.2 Repeatability, r	3
	ex A (informative) Existing standards to evaluate the influence of water on grease properties	5
Bibliography Document Preview		6

ISO 12921:2024

https://standards.iteh.ai/catalog/standards/iso/a5dbbef/-5b/4-4024-a0e5-df9a33652/ed/iso-12921-2024

ISO 12921:2024(en)

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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.

This document was prepared by Technical Committee 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.

ISO 12921:2024

https://standards.iteh.ai/catalog/standards/iso/a5dbbef/-5b/4-4024-a0e5-df9a33652/ed/iso-12921-2024

ISO 12921:2024(en)

Introduction

Numerous standards exist to evaluate the influence of water on grease properties. These standards are described in $\underline{\text{Annex A}}$.

The purpose of this document is to describe a method for the evaluation of the effect of water on the working stability of a grease, by comparing the penetrations of the grease worked without water and the grease worked in presence of water. This allows to predict the mechanical behaviour of the grease, the risk of leakages due to excessive softening, the risk of lubricating properties losses by excessive hardening or complete solubilization.

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 12921:2024

https://standards.iteh.ai/catalog/standards/iso/a5dhbef7-5b74-4024-a0e5-df9a336527ed/iso-12921-2024

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO 12921:2024

https://standards.iteh.ai/catalog/standards/iso/a5dbbef7-5b74-4024-a0e5-df9a336527ed/iso-12921-2024