



BSI Standards Publication

Petroleum products and lubricants — Rheological properties of lubricating greases — Determination of flow point using an oscillatory rheometer with a parallel-plate measuring system

National foreword

This British Standard is the UK implementation of ISO 13227:2025.

The UK participation in its preparation was entrusted to Technical Committee PTI/13, Petroleum Testing and Terminology.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

© The British Standards Institution 2025
Published by BSI Standards Limited 2025

ISBN 978 0 539 22795 6

ICS 75.100

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 March 2025.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------



**International
Standard**

ISO 13227

**Petroleum products and
lubricants — Rheological
properties of lubricating greases —
Determination of flow point using
an oscillatory rheometer with a
parallel-plate measuring system**

*Produits pétroliers et lubrifiants — Propriétés viscoélastiques des
graisses lubrifiantes — Détermination du seuil d'écoulement au
moyen d'un rhéomètre oscillant de type plan/plan*

**First edition
2025-03**

Reference number
ISO 13227:2025(en)

Full document details: BS ISO 13227:2025

© ISO 2025  **Documents**
Document Sharing Hub



COPYRIGHT PROTECTED DOCUMENT

© ISO 2025

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: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	2
5 Principle	2
6 Reagents and materials	3
7 Apparatus	3
8 Sampling	3
9 Preparation	3
9.1 Cleaning of the measurement system	3
9.2 Sampling of lubricating greases	3
10 Procedure	4
10.1 Filling of the parallel plate measuring system and setting of the measuring gap	4
10.2 Temperature control	4
10.3 Measurement	4
11 Evaluation	5
12 Expression of results	6
13 Precision	7
13.1 General	7
13.2 Repeatability, r	7
13.3 Reproducibility, R	7
14 Test report	7
Bibliography	9