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Petroleum products and lubricants — Determination of rust-prevention characteristics of lubricating greases —

Part 2: Method with water wash-out

*Produits pétroliers et lubrifiants — Détermination des
caractéristiques antirouille des graisses lubrifiantes —*

Partie 2: Méthode avec délavage à l'eau



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
5 Sampling	2
6 Apparatus and materials	2
7 Reagents	2
8 Preparation of the apparatus	3
9 Test procedure	4
10 Dismantling the apparatus	5
11 Inspection	5
12 Precision	6
13 Test report	6
Annex A (normative) Test rig apparatus	7
Annex B (informative) Various ratings illustrating the degree of corrosion	9
Bibliography	10

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).

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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 ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*.

This first edition of ISO/TS 11007-2, together with ISO 11007-1, cancels and replaces ISO 11007:1997, which has been technically revised.

The main changes compared to the previous edition are as follows:

- the document has been divided in two parts: part 1 on dynamic wet conditions and part 2 specifying the method with water wash-out;
- other water types and user-specified solutions have been introduced to the test procedure.

A list of all parts in the ISO 11007 series can be found on the ISO website.

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.

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Introduction

ISO 11007-1 specifies a method for the evaluation of the corrosion protection properties of lubricating grease in the presence of non-flowing water; the test bearing is immersed partially in the test fluid.

In some industries (e.g. wet sections of paper mills, roll neck bearings of rolling mills) the bearings are submitted to flow of water, rolling emulsions, paper treatment liquors, etc. In case of seal damage of the bearings, the corrosion inhibitors present in the grease may be potentially washed out, hence impairing the corrosion protection properties.

This document describes a procedure using the flow of test fluid (wash-out) instead of the non-flow conditions described in ISO 11007-1^[1].

This test method is commonly known as Emcor¹⁾ test in the industry.

A rolling bearing grease may be not suitable to lubricate plain bearings or gears.

The precision of the method described in this document has not yet been determined by an interlaboratory study.

1) Emcor stands for Emulsion corrosion.