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

**Part 1:  
Dynamic wet conditions**

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

*Partie 1: Conditions dynamiques humides*

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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*.

This first edition of ISO 11007-1, together with ISO/TS 11007-2, 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](http://www.iso.org/members.html).

## Introduction

ISO 6743-9 classifies greases according to their conditions of use. The complete designation of a grease comprises of the ISO sign, the letter L (lubricant, industrial oils and related products), the letter X for the grease family, four symbols related to the conditions of use, and the NLGI consistency number. The third symbol is related to the ability of the grease to ensure satisfactory lubrication in presence of water and provide an adequate corrosion protection level.

The symbol 3 is a combination of the rust protection level evaluated using this document and of the level of resistance to water contamination using the water washout test according to ISO 11009.

The purpose of this document is to prescribe a method for the evaluation of the corrosion protection properties of lubricating grease in dynamic wet conditions. This test method is commonly known as Emcor<sup>1)</sup> test in the industry.

Greases are specified in ISO 12924.

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

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1) Emcor stands for Emulsion corrosion.

