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**Lubricants, industrial oils and related  
products (class L) — Classification —**

**Part 6:  
Family C (gear systems)**

*Lubrifiants, huiles industrielles et produits connexes (classe L) —  
Classification —*

*Partie 6: Famille C (engrenages)*

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# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Explanation of symbols used</b> .....	<b>1</b>
<b>5 Detailed classification</b> .....	<b>2</b>
<b>Annex A (informative) Main parameters governing the choice of a gear lubricant</b> .....	<b>7</b>
<b>Bibliography</b> .....	<b>8</b>

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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)).

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For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html)

This document was prepared by ISO/TC 28, *Petroleum products and lubricants*, Subcommittee SC 4, *Classification and specifications*.

This second edition cancels and replaces the first edition (ISO 6743-6:1990), which has been technically revised.

The main change from the previous edition is that the table of classification now details the various types of synthetic fluids, and includes environmentally acceptable fluids and specific fluids for protection against the micro-pitting phenomenon.

A list of all the parts of ISO 6743 can be found on the ISO website.

## Introduction

Recent evolutions in the area of gear lubrication have led to the necessity of an update of the classification of gear lubricants.

The former classification mentioned “synthetic lubricants”, without any precision about their chemical nature.

For some applications, environmentally acceptable lubricants are needed.

This new classification includes different types of synthetic lubricants and environmentally acceptable lubricants. It includes also a specific category of lubricant exhibiting properties for the protection against the micro-pitting phenomenon.

This completes the classification presented in the previous edition, ISO 6743-6:1990, and fulfils the needs of the industry.

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