



# SLOVENSKI STANDARD

## SIST ISO 6743-6:2018

01-junij-2018

Nadomešča:  
SIST ISO 6743-6:2002

---

**Maziva, industrijska olja in sorodni proizvodi (razred L) - Klasifikacija - 6. del:  
Podskupina C (zobniški sistemi)**

Lubricants, industrial oils and related products (class L) - Classification - Part 6: Family C  
(gear systems)

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

Lubrifiants, huiles industrielles et produits connexes (classe L) - Classification - Partie 6:  
Famille C (engrenages)

[SIST ISO 6743-6:2018](https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018)  
[https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-  
deaf398ff0ee/sist-iso-6743-6-2018](https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018)

**Ta slovenski standard je istoveten z: ISO 6743-6:2018**

---

**ICS:**

75.100

Maziva

Lubricants, industrial oils and  
related products

**SIST ISO 6743-6:2018**

**en,fr**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ISO 6743-6:2018

<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018>

INTERNATIONAL  
STANDARD

ISO  
6743-6

Second edition  
2018-01

---

---

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

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

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

**iTeh STANDARD PREVIEW**  
*Partie 6: Famille C (engrenages)*  
**(standards.iteh.ai)**

SIST ISO 6743-6:2018

<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018>



Reference number  
ISO 6743-6:2018(E)

© ISO 2018

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ISO 6743-6:2018

<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018>



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2018, Published in Switzerland

All rights reserved. Unless otherwise specified, 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  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

# Contents

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

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ISO 6743-6:2018](https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018)

<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018>

## ISO 6743-6:2018(E)

## 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 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) (standards.iteh.ai)

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

[SIST ISO 6743-6:2018](https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-118f01000000/sist/6743-6:2018)  
<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-118f01000000/sist/6743-6:2018>

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.

## iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST ISO 6743-6:2018](https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018)

<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018>

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

SIST ISO 6743-6:2018

<https://standards.iteh.ai/catalog/standards/sist/50a79b89-9a53-4b24-bfa3-deaf398ff0ee/sist-iso-6743-6-2018>



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

## Part 6: Family C (gear systems)

### 1 Scope

This document establishes the detailed classification of fluids of Family C (gear systems) which belongs to class L (lubricants, industrial oils and related products). It can be read in conjunction with ISO 6743-99.

The classification in this document concerns lubricants for industrial gears and excludes lubricants for automotive gears.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

### 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 4 Explanation of symbols used

**4.1** This detailed classification of Family C has been established by defining the categories of products required for the main applications of the family and final subdivision by reference to composition of corresponding products.

**4.2** Each category is designated by a symbol consisting of group of letters which, together, constitute a code.

The first letter of the code (C) identifies the family of the product considered but any following letters taken separately have no significance of their own.

The designation of each category can be supplemented by the addition of viscosity grades according to ISO 3448.

**NOTE** The first letter of the code (C) identifies the family of the product considered, but none of the second and third letters considered separately bear a proper meaning. In order to avoid any confusion with the API code of diesel engine lubricants, it has been admitted to include in second position the letter K in this ISO classification.