

This is a preview of "ISO 6626-2:2013". [Click here to purchase the full version from the ANSI store.](#)

Second edition  
2013-08-01

---

---

## **Internal combustion engines — Piston rings —**

### **Part 2: Coil-spring-loaded oil control rings of narrow width made of cast iron**

*Moteurs à combustion interne — Segments de piston —*

*Partie 2: Segments racleurs régulateurs d'huile étroits, en fonte, mis en charge par ressort hélicoïdal*



Reference number  
ISO 6626-2:2013(E)

© ISO 2013

This is a preview of "ISO 6626-2:2013". [Click here to purchase the full version from the ANSI store.](#)



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2013

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  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 6626-2:2013". Click here to purchase the full version from the ANSI store.

## 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 Overview</b> .....	<b>1</b>
<b>4 Piston ring types and designation</b> .....	<b>2</b>
4.1 DSF-C, SSF, GSF, DSF, SSF-L, DSF-NG and DSF-CNP types.....	2
4.2 Type DSF-C — Coil-spring-loaded bevelled edge oil control ring, chromium-plated, and profile ground.....	2
4.3 Type DSF-CNP — Coil-spring-loaded bevelled-edge oil control ring, chromium-plated not profile ground.....	3
4.4 Type SSF — Coil-spring-loaded slotted oil control ring.....	4
4.5 Type GSF — Coil-spring-loaded double bevelled oil control ring.....	5
4.6 Type DSF — Coil-spring-loaded bevelled edge oil control ring.....	6
4.7 Type DSF-NG — Coil-spring-loaded bevelled-edge oil control ring (face geometry similar to type DSF-C).....	7
4.8 Type SSF-L — Coil-spring-loaded slotted oil control ring with 0,4 mm nominal land width.....	8
<b>5 Common features</b> .....	<b>9</b>
5.1 Oil drainage by slots or holes.....	9
5.2 Plating thickness — DSF-C and DSF-CNP (coil-spring-loaded bevelled edge oil control ring, chromium plated).....	11
5.3 Peripheral edges at gap of chromium plated oil control rings.....	12
<b>6 Coil springs</b> .....	<b>12</b>
6.1 Types of coil spring.....	12
6.2 Coil spring excursion (extended gap).....	14
6.3 Position of coil spring gap and fixing.....	14
6.4 Material.....	14
<b>7 Tangential force and nominal contact pressure</b> .....	<b>14</b>
7.1 Tangential force.....	14
7.2 Force factors.....	14
7.3 Tangential force, $F_t$ .....	15
7.4 Classes of nominal contact pressure, $p_0$ .....	15
<b>8 Dimensions and tangential forces</b> .....	<b>17</b>
<b>Bibliography</b> .....	<b>36</b>

## 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. [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. [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.

The committee responsible for this document is ISO/TC 22, *Road vehicles*.

This second edition cancels and replaces the first edition (ISO 6626-2:2003), which has been technically revised.

ISO 6626 consists of the following parts, under the general title *Internal combustion engines — Piston rings*:

- *Part 2: Coil-spring-loaded oil control rings of narrow width made of cast iron*
- *Part 3: Coil-spring-loaded oil control rings made of steel*

ISO 6626:1989 (*Internal combustion engines — Piston rings — Coil-spring-loaded oil control rings*) is to be withdrawn and replaced with a part 1 (i.e. a revision) at a later date.

This is a preview of "ISO 6626-2:2013". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

ISO 6626 (all parts) is one of a series of International Standards dealing with piston rings for reciprocating internal combustion engines. The others are ISO 6621 (all parts), ISO 6622 (all parts),<sup>[2]</sup> ISO 6623,<sup>[3]</sup> ISO 6624 (all parts),<sup>[4]</sup> ISO 6625<sup>[5]</sup> and ISO 6627.<sup>[6]</sup>