INTERNATIONAL STANDARD

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Third edition
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Internal combustion engines — Piston rings —

Part 1: Rectangular rings made of cast iron

Moteurs à combustion interne — Segments de piston —

Partie 1: Segments rectangulaires en fonte moulée

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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).

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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 *22*, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain and powertrain fluids*.

This third edition cancels and replaces the second edition (ISO 6622-1:2003), which has been technically revised.

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

— figures were updated for a better understanding;

— added M6 taper in Table 3;

— added h_{19} dimension in Table 5;

— editorial adaptations according to ISO directives.

A list of all parts in the ISO 6622 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.

Introduction

The ISO 6622 series is one of a number of series of International Standards dealing with piston rings for reciprocating internal combustion engines. Others are ISO 6621,[2],[3],[4] ISO 6623,[5] ISO 6624 [6],[7], [8] [9], ISO 6625,[10] ISO 6626 [11],[12] and ISO 6627 [13].

The common features and dimensional tables presented in this document constitute a broad range of variables and, in selecting a particular ring type, it is important for the designer to bear in mind the conditions under which it will be required to operate.

It is also important that the designer refers to the specifications and requirements of ISO 6621-3 [3] and ISO 6621-4 before completing selection.