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Internal combustion engines — Piston rings —

Part 5: Quality requirements

*Moteurs à combustion interne — Segments de piston —
Partie 5: Exigences de qualité*



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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Visible defects	2
4.1 General.....	2
4.2 Pores, cavities, and sand inclusions.....	2
4.3 Scratches, indentations, depressions, and cracks.....	3
4.4 Edges.....	3
4.5 Other characteristics subject to visual inspection only.....	10
5 Material	11
5.1 Specifications.....	11
5.2 Loss of tangential force under temperature effects.....	11
6 Raised material caused by marking of rings	11
7 Machining of periphery and sides — Unintentional deviation from ideal profile and flatness	12
7.1 General.....	12
7.2 Permissible deviations for peripheral surface profile.....	12
7.3 Permissible helix.....	13
Bibliography	14

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

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

This third edition cancels and replaces the second edition (ISO 6621-5:2005), of which it constitutes a minor revision.

ISO 6621 consists of the following parts, under the general title *Internal combustion engines — Piston rings*:

- *Part 1: Vocabulary*
- *Part 2: Inspection measuring principles*
- *Part 3: Material specifications*
- *Part 4: General specifications*
- *Part 5: Quality requirements*

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Introduction

This International Standard is one of a number of series of International Standards dealing with piston rings for reciprocating internal combustion engines. Others are ISO 6622, ISO 6623, ISO 6624, ISO 6625, ISO 6626, and ISO 6627.

The common features and dimensional tables presented in this part of ISO 6621 constitute a broad range of variables, and the designer, in selecting a particular ring type, should bear in mind the conditions under which it will be required to operate. The designer also refers to the specifications and requirements of ISO 6621-3 and ISO 6621-4 before completing his selection.

The difficulty of trying to define in absolute terms the quality attainable in normal commercial manufacture of piston rings is well known. In this part of ISO 6621, the commonly encountered aspects of quality in terms of casting defects and other departures from ideal are quantified. Many minor defects are clearly quite acceptable; other defects because of size or number are inadmissible.