BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा

आंतरिक दहन इंजन — पिस्टन रिंग — भाग 4: सामान्य विशिष्टताएँ

Draft Indian Standard

INTERNAL COMBUSTION ENGINES — PISTON RINGS — PART 4: GENERAL SPECIFICATIONS

ICS: 43.060.10

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of BIS or used as standard	is 27/02/2024

Automotive Prime Movers, Transmissions Systems and Internal Combustion Engines Sectional Committee, TED 02

NATIONAL FOREWORD

This draft Indian Standard which is identical with ISO 6621-4:2015 'Internal combustion engines — Piston rings — Part 4: General specifications' issued by International Organization for Standardization (ISO), will be adopted by the Bureau of Indian Standards on the recommendations of Automotive Prime Movers, Transmissions Systems and Internal Combustion Engines Sectional Committee and approval of the Transport Engineering Division Council

This standard is one of the series of Indian Standards published on 'Internal combustion engines — Piston rings'. Other standards in this series are:

- a) Part 1: Vocabulary
- b) Part 2: Inspection measuring principles
- c) Part 3: Material specifications
- d) Part 5: Quality requirements

The text of ISO standard is proposed for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, references appear to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of Equivalence
ISO 6507-3: 2018	IS 1501 (Part 3): 2020/ISO 6507-3:	Identical under dual
	2018	numbering
Metallic materials — Vickers		
hardness test — Part 3:	Metallic Materials — Vickers	
Calibration of reference	Hardness Test — Part 3: Calibration	
blocks	of Reference Blocks	

International Standard	Corresponding Indian Standard	Degree of Equivalence
	(Fifth Revision)	
ISO 6621-1: 2018	IS/ISO 6621-1: 2018	Identical under single
		numbering
Internal combustion engines	Internal Combustion Engines —	
— Piston rings — Part 1:	Piston Rings — Part 1: Vocabulary	
Vocabulary	(First Revision)	
ISO 6621-2: 2020	IS/ISO 6621-2: 2020	Identical under single
		numbering
Internal combustion engines	Internal Combustion Engines —	
— Piston rings — Part 2:	Piston Rings— Part 2: Inspection	
Inspection measuring	Measuring Principles (First	
principles	Revision)	

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

The standard also makes a reference to the BIS Certification Marking of the product. Details of which are given in National Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2: 2022 'Rules for rounding off numerical values (*Second Revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

SCOPE

This part of ISO 6621 specifies the general characteristics of piston rings for reciprocating internal combustion engines for road vehicles and other applications (the individual dimensional criteria for these rings are given in the relevant International Standards). It also provides a system for ring coding, designation, and marking. It is applicable to all such rings of a nominal diameter from 30 mm up to and including 200 mm.

FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 6621-4:2015 or CONTACT:

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TED 02 (24507) WC IS XXXX/ISO 6621-4:2015 **DECEMBER 2023**

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NATIONAL ANNEX A

(National Foreword)

A-1 BIS CERTIFICATION MARKING

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.