

INTERNATIONAL  
STANDARD

ISO  
6621-5

Third edition  
2013-10-01

---

---

---

## Internal combustion engines — Piston rings —

### Part 5: Quality requirements

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



Reference number  
ISO 6621-5:2013(E)

© ISO 2013



## 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

# 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 Terms and definitions</b>	<b>2</b>
<b>4 Visible defects</b>	<b>2</b>
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
<b>5 Material</b>	<b>11</b>
5.1 Specifications	11
5.2 Loss of tangential force under temperature effects	11
<b>6 Raised material caused by marking of rings</b>	<b>11</b>
<b>7 Machining of periphery and sides — Unintentional deviation from ideal profile and flatness</b>	<b>12</b>
7.1 General	12
7.2 Permissible deviations for peripheral surface profile	12
7.3 Permissible helix	13
<b>Bibliography</b>	<b>14</b>