



UL 157

STANDARD FOR SAFETY

Gaskets and Seals

[ULNORM.COM](https://www.ulnorm.com) : Click to view the full PDF of UL 157 2015

ULNORM.COM : Click to view the full PDF of UL 157 2015

UL Standard for Safety for Gaskets and Seals, UL 157

Second Edition, Dated March 8, 1996

Summary of Topics

This revision to UL 157 includes the following changes in requirements:

- ***Clarification of Profile Test Applicability***
- ***Deletion of Drinking Water End-Use Gasket Requirements***
- ***Deletion of Compressibility, Recovery, and Sealability Test in Section 12***
- ***Revision of ASTM References for Ozone Exposure***
- ***Update and Removal of Dates on References to Outside Standards***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin. Changes in requirements are marked with a vertical line in the margin and are followed by an effective date note indicating the date of publication or the date on which the changed requirement becomes effective.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated July 17, 2014.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a "SUPERSEDED REQUIREMENTS" notice.

The following table lists the future effective dates with the corresponding reference.

| Future Effective Dates | References |
|---------------------------------|--|
| Effective date to be determined | Table 4.1, Table 4.2, Paragraphs 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.2.7, Table 5.1, 5.4.3, 5.4.7, 6.2.1, 6.4.1, 7.2.1, 7.3.1, 7.4.1, 7.4.2, 8.2.1, 9.2.1, 9.3.1, 9.4.1, Section 12, Paragraphs 13.2.1, 15.2.1, 15.3.1, 15.4.1, 17.2.1, 17.3.2, 18.2.1, 18.3.1, and 18.4.1 |

ULNORM.COM : Click to view the full PDF of UL 157 2015

MARCH 8, 1996

(Title Page Reprinted: March 2, 2015)

1

UL 157

Standard for Gaskets and Seals

First Edition – February, 1991

Second Edition

March 8, 1996

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <http://csds.ul.com>.

COPYRIGHT © 2015 UNDERWRITERS LABORATORIES INC.

ULNORM.COM : Click to view the full PDF of UL 157 2015

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 157 2015

CONTENTS

INTRODUCTION

| | | |
|---|--------------------------------|----|
| 1 | Scope | 4A |
| 2 | General | 4A |
| | 2.1 Details | 4A |
| | 2.2 Units of measurement | 4B |
| | 2.3 Undated references | 4B |
| 3 | Glossary | 4B |

PERFORMANCE

| | | |
|----|---|-----|
| 4 | General | 7 |
| 5 | Tensile Strength and Ultimate Elongation Test | 11 |
| | 5.1 General | 11 |
| | 5.2 Apparatus | 11 |
| | 5.3 Specimens | 12 |
| | 5.4 Method | 13 |
| 6 | Accelerated Air Oven Aging Test | 14 |
| | 6.1 General | 14 |
| | 6.2 Apparatus | 14 |
| | 6.3 Specimens | 15 |
| | 6.4 Method | 15 |
| 7 | Compression Set Test | 15 |
| | 7.1 General | 15 |
| | 7.2 Apparatus | 15 |
| | 7.3 Specimens | 15 |
| | 7.4 Method | 16 |
| 8 | Tensile Set Test | 17 |
| | 8.1 General | 17 |
| | 8.2 Apparatus | 17 |
| | 8.3 Specimens | 17 |
| | 8.4 Method | 17 |
| 9 | Hardness Test | 18 |
| | 9.1 General | 18 |
| | 9.2 Apparatus | 18 |
| | 9.3 Specimens | 18 |
| | 9.4 Method | 18 |
| 10 | Low Temperature Test | 18 |
| | 10.1 General | 18 |
| | 10.2 Apparatus | 18A |
| | 10.3 Specimens | 18A |
| | 10.4 Method | 18A |
| 11 | Immersion Test | 18A |
| | 11.1 General | 18A |
| | 11.2 Apparatus | 18A |
| | 11.3 Specimens | 18B |
| | 11.4 Method | 19 |
| 12 | Compressibility, Recovery and Sealability | 21 |
| 13 | Adhesion Test | 21 |
| | 13.1 General | 21 |

| | |
|---|----|
| 13.2 Apparatus | 21 |
| 13.3 Specimens | 22 |
| 13.4 Method | 22 |
| 14 Extinguishing Agent Exposure Test | 23 |
| 14.1 General | 23 |
| 14.2 Apparatus | 23 |
| 14.3 Specimens | 23 |
| 14.4 Method | 23 |
| 15 Ozone Exposure Test | 23 |
| 15.1 General | 23 |
| 15.2 Apparatus | 24 |
| 15.3 Specimens | 24 |
| 15.4 Method | 24 |
| 16 Detergent/Cleaner Exposure Test | 24 |
| 16.1 General | 24 |
| 16.2 Apparatus | 24 |
| 16.3 Specimens | 25 |
| 16.4 Method | 25 |
| 17 Accelerated Oxygen Pressure Aging Test | 25 |
| 17.1 General | 25 |
| 17.2 Apparatus | 26 |
| 17.3 Specimens | 26 |
| 18 Bursting Strength Test | 26 |
| 18.1 General | 26 |
| 18.2 Apparatus | 26 |
| 18.3 Specimens | 27 |
| 18.4 Method | 27 |
| 19 Refrigerant Exposure Test | 27 |
| 19.1 General | 27 |
| 19.2 Apparatus | 27 |
| 19.3 Specimens | 27 |
| 19.4 Method | 27 |

MARKING

| | |
|------------------|----|
| 20 General | 28 |
|------------------|----|

ULNORM.COM : Click to view the full PDF of UL 157 2015

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 157 2015