UL 157

STANDARD FOR SAFETY

Gaskets and Seals

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UL Standard for Safety for Gaskets and Seals, UL 157

Third Edition, Dated June 24, 2026

Summary of Topics

This Third Edition of UL 157 dated June 24, 2026 incorporates editorial changes including renumbering reformatting to align with current style, and includes the following changes:

– Format Changes; Sections 17, 18, and 20.

– Test Procedure Clarification; Sections 7 – 11, Sections 13 – 16.

– Requirement changes in the Performance section for MPS Gas and Corn Oil.

The requirements are substantially in accordance with Proposal(s) on this subject dated April 10, 2026.

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UL 157

Standard for Gaskets and Seals

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Third Edition

June 24, 2026

This UL Standard for Safety consists of the Third Edition.

Comments or proposals for revisions on any part of the Standard may be submitted to ULSE at any time. Proposals should be submitted via a Proposal Request in the Collaborative Standards Development System (CSDS) at https://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover test procedures and performance criteria for the evaluation of nonmetallic gasket and seal materials such as elastomers, composite gasket material, flexible cellular material, thermoplastics and thermoplastic elastomers for specific end products.

1.2 The general use of these gasket and seal materials is to exclude or hold within an enclosure materials that are liquid, gas, or vapor.

1.3 The materials covered in this standard are incomplete in certain construction features or restricted in performance capabilities, and are intended for use as components in complete equipment.

1.4 This standard covers gaskets and seals as:

a) Elastomers, thermoplastics and thermoplastic elastomers in the form of solid sheets, flexible cellular sheets, slabs, rolls, or parts, "O" rings, seats, shaft seals, and special forms.

b) Composite gaskets in the form of sheets, rolls and cut forms of the types described in 5.3.

c) Coated fabrics in the form of elastomers reinforced with fabrics in sheets or diaphragm form.

1.5 The material composition of these gaskets and seals excludes metals.

1.6 The gaskets and seals are evaluated for various properties to provide profile information – see Table 6.1. They are also evaluated for specific end-use applications – see Table 6.2. Table 6.3 specifies the oven aging required for establishing the maximum temperature for an expected use.

2 General

2.1 The properties and requirements in this standard may be superseded by the applicable end-product standard.

3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

4 Referenced Publications

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

4.2 The following publications are referenced in this Standard:

ASTM D395, *Standard Test Methods for Rubber Property – Compression Set*

ASTM D396, *Standard Specification for Fuel Oils*

ASTM D412, *Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension*

ASTM D471, *Standard Test Method for Rubber Property – Effect of Liquids*

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