



UL 147A

STANDARD FOR SAFETY

Nonrefillable (Disposable) Type Fuel Gas Cylinder Assemblies

*UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL*



Documents

Document Sharing Hub

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL**



Documents
Document Sharing Hub

UL Standard for Safety for Nonrefillable (Disposable) Type Fuel Gas Cylinder Assemblies, UL 147A

Fourth Edition, Dated June 6, 2018

Summary of Topics

This new edition of ANSI/UL 147A includes a revision to the Moist Ammonia-Air Stress Cracking Test and miscellaneous editorial corrections.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated April 20, 2018.

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.

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL



Documents

Document Sharing Hub

No Text on This Page

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL**



Documents

Document Sharing Hub

JUNE 6, 2018

1



ANSI/UL 147A-2018

UL 147A

Standard for Nonrefillable (Disposable) Type Fuel Gas Cylinder

Assemblies

First Edition – October, 1992
Second Edition – September, 1996
Third Edition – March, 2005

Fourth Edition

June 6, 2018

This ANSI/UL Standard for Safety consists of the Fourth Edition.

The most recent designation of ANSI/UL 147A as an American National Standard (ANSI) occurred on June 6, 2018. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

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 <https://csds.ul.com>.

UL's Standards for Safety are copyrighted by UL. Neither a printed nor electronic copy of a Standard should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

COPYRIGHT © 2018 UNDERWRITERS LABORATORIES INC.

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM UL**



Documents

Document Sharing Hub

No Text on This Page



CONTENTS

INTRODUCTION

1 Scope	4
2 Components	4
3 Units of Measurement	5
4 Undated References	5
5 Glossary	5
6 Pressure and Temperature Ratings	6
7 Size and Filling Limitations	6

CONSTRUCTION

8 General	6
9 Assembly	7
10 Materials	7

PERFORMANCE

11 General	8
12 Leakage Test	8
13 Connection Valve Endurance Test	9
14 Hydrostatic Pressure Strength Test	9
15 Start-to-Discharge and Resealing-Pressure, Tests of Pressure Relief Valves	10
16 Fire Test	11
17 Accelerated Aging Test	11
18 Fuel Gas Compatibility Test	11
18.1 General	11
18.2 Volume change	12
18.3 Weight loss	12
19 Low Temperature Test	12
20 Moist Ammonia-Air Stress Cracking Test	13

MANUFACTURING AND PRODUCTION TESTS

21 General	13
------------------	----

MARKING

22 General	14
------------------	----