



UL RP 60079-46

Recommended Practice for Explosive Atmospheres – Part 46: Equipment Assemblies

ULNORM.COM : Click to view the full PDF of UL 60079-46 2022

[ULNORM.COM](https://ulnorm.com) : Click to view the full PDF of UL 60079-46 2022

Recommended Practice for Explosive Atmospheres – Part 46: Equipment Assemblies, UL RP 60079-46

First Edition, Dated July 22, 2022

Summary of Topics

First Edition of the UL IEC-Based Technical Specification for Explosive Atmospheres – Part 46: Equipment Assemblies, ANSI/UL RP 60079-46, dated July 22, 2022. This is an adoption of IEC TS 60079-46, Explosive Atmospheres – Part 46: Equipment Assemblies, (first edition, issued by IEC August 2017) as a new IEC-based UL Recommended Practice, UL RP 60079-46 with US National Differences.

The requirements are substantially in accordance with Proposal(s) on this subject dated March 13, 2021 and May 20, 2022.

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 Recommended Practice “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 Recommended Practice, 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 Recommended Practice, regardless of the form of the claim.

Users of the electronic versions of UL's Recommended Practices 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 Recommended Practice on the purchaser's computer system.

No Text on This Page

[ULNORM.COM](https://ulnorm.com) : Click to view the full PDF of UL 60079-46 2022

JULY 22, 2022



ANSI/UL RP 60079-46-2022

1

UL RP 60079-46

**Recommended Practice for Explosive Atmospheres – Part 46: Equipment
Assemblies**

First Edition

July 22, 2022

This ANSI/UL Recommended Practice consists of the First Edition.

The most recent designation of ANSI/UL RP 60079-46 as an American National Standard (ANSI) occurred on July 22, 2022. ANSI approval for a Recommended Practice does not include the Cover Page, Transmittal Pages, and Title Page and Preface. The National Difference Page and IEC Foreword are also excluded from the ANSI approval of IEC-based standards.

Comments or proposals for revisions on any part of the Recommended Practice 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 Recommended Practice are copyrighted by UL. Neither a printed nor electronic copy of a Recommended Practice should be altered in any way. All of UL's Recommended Practice and all copyrights, ownerships, and rights regarding those Recommended Practice shall remain the sole and exclusive property of UL.

COPYRIGHT © 2022 UNDERWRITERS LABORATORIES INC.

UL COPYRIGHTED MATERIAL – NOT AUTHORIZED FOR FURTHER

REPRODUCTION OR DISTRIBUTION WITHOUT PERMISSION FROM UL INC.

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 60079-46 2022

CONTENTS

PREFACE 5

NATIONAL DIFFERENCES 9

FOREWORD 11

INTRODUCTION..... 13

1 Scope 15

 1DV.1 Modification of first 2 paragraphs of Clause 1 to replace with the following: 15

 1DV.2 Modification of 3rd through 5th paragraphs, including Notes, of Clause 1 to replace with the following: 15

 1ADV.3 Modification to add to Clause 1: 16

2 Normative references 16

 2DV Modification of Clause 2 references to replace with the following: 16

3 Terms and definitions..... 17

 3DV Modification of Clause 3, first paragraph to replace with the following: 17

 3.1DV Modification of Clause 3.1 to replace with the following: 17

 3.2DV Modification of Clause 3.2 to replace with the following: 18

 3.4ADV Addition of 3.4ADV as follows:..... 18

 3.4.1ADV Addition of 3.4.1ADV as follows: 18

 3.4.2ADV Addition of 3.4.2ADV as follows: 18

4 General requirements for equipment assemblies 19

 4.1 General specifications 19

 4.1DV Modification of Clause 4.1 to replace with the following: 19

 4.2 Explosion protection specifications 19

 4.2DV Modification of Clause 4.2 to replace with the following: 19

 4.3 Hazardous area classification related to the equipment assembly 20

 4.4 Competencies 20

 4.4DV Deletion of Clause 4.4, it does not apply 20

5 Design of equipment assemblies 21

 5.1 General 21

 5.1DV Modification of Clause 5.1 to replace with the following: 21

 5.2 Ex Equipment 21

 5.3 Other items 23

 5.3DV Modification of Clause 5.3 to replace with the following: 23

 5.4 Wiring system 23

 5.4DV Modification of Clause 5.4 to replace with the following: 23

 5.5 Drawings 24

 5.5DV Modification of Clause 5.5 to replace with the following: 24

6 Construction and assembly 24

 6.1 General 24

 6.1DV Modification of Clause 6.1 to replace with the following: 24

 6.2 Disassembly and reassembly 24

 6.2DV Modification of Clause 6.2 Disassembly and reassembly, and relocate as Clause 6.6ADV, Inspection & testing. 24

 6.3 System interfaces 25

 6.3DV Modification of Clause 6.3, System interfaces, to relocate as Clause 6.4ADV.1, Ignition hazard assessment..... 25

 6.4 Ignition hazard assessment 25

 6.4DV Modification of Clause 6.4 as follows: 25

 6.4ADV Modification of Clause 6.3, System interfaces, to relocate as Clause 6.4ADV.1, System interfaces, and replace with the following: 26