

2023-09

ISO/~~DIS~~PRF 22760-9:2023(E)

ISO/TC 22/SC 41

Secretariat: UNI

Date: 2024-03-12

Road vehicles — Dimethyl ~~Ether~~ether (DME) fuel system components —

iTeh Standards

(<https://standards.iteh.ai>)

Part 9:

Pressure relief device (PRD) ~~Document~~ Preview

Véhicules routiers — Composants des systèmes de combustible Diméthyle Ether (DME) —

ISO/PRF 22760-9

Partie 9: Dispositif de limitation de pression <https://standards.iteh.ai/catalog/standards/iso/ceb1840a-4fdc-4168-b0e4-b4ecbc398cf4/iso-prf-22760-9>

PROOF

© ISO ~~2023~~2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11

Fax: +41 22 749 09 47

Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[ISO/PRF 22760-9](https://standards.iteh.ai/catalog/standards/iso/ceb1840a-4fdc-4168-b0e4-b4ecbc398cf4/iso-prf-22760-9)

<https://standards.iteh.ai/catalog/standards/iso/ceb1840a-4fdc-4168-b0e4-b4ecbc398cf4/iso-prf-22760-9>

Contents—Page

Foreword	vi
Part 9: Pressure relief device (PRD).....	1
1 Scope	1
2 Normative references.....	1
3 Terms and definitions	1
4 Marking.....	2
5 Design and assembly	2
6 Tests	2
6.1 Applicability.....	2
6.2 Hydrostatic strength.....	3
6.3 Leakage	3
6.4 Bending moment.....	4
6.5 Continued operation.....	4
6.5.1 Test procedure	4
6.5.2 Requirements	4
6.6 Accelerated life.....	4
6.6.1 General.....	4
6.6.2 Test procedure	5
6.6.3 Accelerated-life test temperature	5
6.6.4 Requirements	5
6.7 Benchtop activation.....	5
6.7.1 General.....	5
6.7.2 Thermally-activated PRDs.....	5
6.8 Thermal cycling	6
6.8.1 Test procedure	6
6.8.2 Requirements	6
6.9 Condensate corrosion resistance	6
6.9.1 Test procedure	6
6.9.2 Test solution.....	7
6.10 Flow capacity.....	7
6.10.1 General.....	7
6.10.2 Test procedure.....	7
7 Production batch inspection and acceptance testing	7
Annex A (normative) Determination of fusible material yield temperature and PRD activation temperature	8
A.1 General.....	8

A.2	Fusible material yield temperature.....	8
A.2.1	Sample selection.....	8
A.2.2	Test setup.....	8
A.2.3	Test procedure.....	8
A.2.4	Requirements.....	8
A.3	PRD activation temperature determination.....	9
A.3.1	Differential scanning calorimetry (DSC) method.....	9
	Bibliography.....	10

	Foreword.....	iv
1	Scope.....	1
2	Normative references.....	1
3	Terms and definitions.....	1
4	Marking.....	2
5	Design and assembly.....	2
6	Tests.....	2
6.1	Applicability.....	2
6.2	Hydrostatic strength.....	3
6.3	Leakage.....	3
6.4	Bending moment.....	4
6.5	Continued operation.....	4
6.5.1	Test procedure.....	4
6.5.2	Requirements.....	4
6.6	Accelerated life.....	4
6.6.1	General.....	4
6.6.2	Test procedure.....	4
6.6.3	Accelerated-life test temperature.....	4
6.6.4	Requirements.....	5
6.7	Benchtop activation.....	5
6.7.1	General.....	5
6.7.2	Thermally-activated PRDs.....	5
6.8	Thermal cycling.....	5
6.8.1	Test procedure.....	5
6.8.2	Requirements.....	6
6.9	Condensate corrosion resistance.....	6
6.9.1	Test procedure.....	6
6.9.2	Test solution.....	6

6.10 — Flow capacity 6
6.10.1 — General 6
6.10.2 — Test procedure 7
7 — Production batch inspection and acceptance testing 7
Annex A (normative) — Determination of fusible material yield temperature and PRD activation temperature 8

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO/PRF 22760-9

<https://standards.iteh.ai/catalog/standards/iso/ceb1840a-4fdc-4168-b0e4-b4ecbc398cf4/iso-prf-22760-9>

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be subject to patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

This document was prepared by Technical Committee ISO/TC 22, *Road Vehicles*, Subcommittee SC 41, *Specific aspects for gaseous fuels*.

A list of all parts of the ISO 22760 series of international standards can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.