
Criteria for assessment of new extinguishants for inclusion in the ISO 14520 series

*Critères pour l'évaluation de nouveaux agents extincteurs destinés à
être inclus dans la série ISO 14520*



This document is a preview generated by ERS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

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

Contents

Page

Foreword.....iv

Introduction.....v

1 Scope.....1

2 Normative references.....1

3 Terms and definitions.....1

4 Check list.....1

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 the subject of 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 of 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 8, *Gaseous media and firefighting systems using gas*.

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.

Introduction

This document includes technical information related to the design and use of total flooding fire extinguishing systems using liquefied or non-liquefied gaseous fire extinguishing agents. Suggested minimum extinguishant information includes:

- identification;
- specifications;
- physical properties;
- minimum extinguishing concentrations and minimum design concentrations;
- use parameters;
- toxicity;
- environmental properties;
- system design.

At the election of the extinguishant manufacturer, required information may be supplemented with additional information that could prove useful in matters related to the manufacturer, storage, use, and handling of extinguishant containers.

Criteria for assessment of new extinguishants for inclusion in the ISO 14520 series

1 Scope

This document addresses the subject of criteria for assessment of new extinguishants for inclusion in the ISO 14520 series.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Check list

The following check list provides guidance on the review of submissions of new total flooding fire extinguishing agents.

1	Extinguishant identification		
	1.1	Extinguishant designation [American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) designation, or equivalent]	
	1.2	Chemical name (each component if a mixture)	
	1.3	Chemical formula	
	1.4	Chemical Abstracts Service (CAS) number (each component if a mixture)	
2	Extinguishant specifications, including (as applicable)		
	2.1	Purity	
	2.2	Acidity (halocarbons)	
	2.3	Moisture content	
	2.4	Non-volatile residue	
	2.5	Suspended matter	
	2.6	Oxygen content (inert gases)	

NOTE The unit of pressure, "bar", is in bar-gauge unless otherwise noted. For example, container pressures, such as fill pressure and superpressure, are in bar gauge. Atmospheric pressure, critical pressure, vapour pressure are in bar absolute.