	International Standard
	ISO 8216-1
Products from petroleum, synthetic and renewable sources — Fuels (class F) classification —	Sixth edition 2024-04
Part 1: iTeh Standard Categories of marine fuels	ds iteh.ai)
Produits d'origine pétrolière, synthétique ou renouvelable — Prev Classification des combustibles (classe F) — Prev Partie 1: Catégories des combustibles pour la marine ISO 8216-1:2024 https://standards.iteh.ai/catalog/standards/iso/67215194-d76c-4aa	e-82c8-214187686c2f/iso-8216-1-2024

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

ISO 8216-1:2024

https://standards.iteh.ai/catalog/standards/iso/672f5f94-d76c-4aae-82c8-214187686c2f/iso-8216-1-2024



COPYRIGHT PROTECTED DOCUMENT

© ISO 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 Email: copyright@iso.org Website: www.iso.org Published in Switzerland

Contents

Forew	ordiv
Introd	luctionv
1	Scope 1
2	Normative references 1
3	Terms and definitions1
4	Explanation of symbols used1
5	Detailed classification 2
Biblio	graphy4

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 document 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).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

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 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*, Subcommittee SC 4, *Classifications and specifications*.

This sixth edition cancels and replaces the fifth edition (ISO 8216-1:2017), which has been technically revised.

The main changes are as follows:

ISO 8216-1:2024

- the maximum FAME content of ISO-F-DF grades has been increased to 100 % by mass;
- ISO-F-RM grades have been added in <u>Table 1</u> for residual fuels with a sulfur content at or below 0,50 % by mass or 0,10 % by mass;
- ISO-F-RF grades have been added in <u>Table 1</u> for residual fuels including FAME, the content of which is agreed between the buyer and the seller;
- the number of ISO-F-RM grades for residual fuels has been reduced. These grades are now for residual fuels with a sulfur content exceeding 0,50 % by mass.

A list of all parts in the ISO 8216 series 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 <u>www.iso.org/members.html</u>.

ISO 8216-1:2024(en)

Introduction

The classification in this document was prepared in cooperation with ship owners, ship operators, shipping associations, national standards bodies, classification societies, fuel testing services, engine designers, fuel treatment equipment manufacturers, marine fuel suppliers, fuel additive suppliers and the petroleum industry to meet the requirements for marine fuels supplied on a world-wide basis for consumption on board ships.

The increased focus on environmental concerns and legislation to address them are leading to a transition in the nature of marine fuels. There is a shift away from marine fuels supplied from traditional oil products derived from the processing of petroleum crude, and a shift towards oil products derived from renewable and/or alternative sources. The classification takes into consideration the diverse nature of these fuels and incorporates a number of categories of distillate and residual fuels, even though it is possible that not all categories are available in every supply location.

The subcategories (M) for middle distillate fuels and (H) for heavy distillate fuels of ISO-F-D originally described in ISO 8216-99 have not been used in this document, to avoid misunderstanding with M and H used in <u>Clause 4</u>.

Specifications of marine fuel categories are given in ISO 8217.

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

ISO 8216-1:2024

https://standards.iteh.ai/catalog/standards/iso/672f5f94-d76c-4aae-82c8-214187686c2f/iso-8216-1-2024

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

<u>ISO 8216-1:2024</u> https://standards.iteh.ai/catalog/standards/iso/672f5f94-d76c-4aae-82c8-214187686c2f/iso-8216-1-2024