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ISO TC 28/SC 4/WG 6

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**Products from petroleum, synthetic and renewable sources — Fuels (class F)
classification — Part 1: Categories of marine fuels**

*Produits d'origine pétrolière, synthétique ou renouvelable — Classification des
combustibles (classe F) — Partie 1: Catégories des combustibles pour la marine*

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Contents	Page
Foreword	ix
Introduction	x
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Explanation of symbols used	1
5 Detailed classification	2
Bibliography	4
Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Explanation of symbols used	1
5 Detailed classification	2
Table 1 — Classification of marine fuels	2
Bibliography	5

Foreword

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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).

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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:

- the maximum FAME content of ISO-F-DF grades has been increased to 100 % by mass;
- ISO-F-RM grades have been added in Table 1 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 Table 1 for residual fuels including FAME, the content of which is agreed between the buyer and the seller;

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- 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 www.iso.org/members.html.

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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.

~~Focus and legislation addressing~~The increased focus on environmental concerns ~~and legislation to address them~~ are leading to a transition in the nature of marine fuels ~~which are~~. There has been a shift away from marine fuels supplied from traditional oil products derived from the processing of petroleum crude, ~~to potentially include~~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 as used in Clause 4.

Specifications of marine fuel categories are given in ISO 8217.

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