
**Petroleum and related products
from natural or synthetic sources —
Determination of distillation
characteristics at atmospheric
pressure**

*Produits pétroliers et connexes d'origine naturelle ou synthétique —
Détermination des caractéristiques de distillation à pression
atmosphérique*

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Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	3
5 Apparatus	3
5.1 General	3
5.2 Distillation flasks	4
5.3 Condenser tube and cooling bath	4
5.4 Metal shield or enclosure for flask (manual apparatus only)	4
5.5 Heat source(s)	8
5.6 Flask-support	8
5.7 Graduated cylinders	9
5.8 Temperature measurement system	10
5.9 Centring device	10
5.10 Barometer	10
6 Samples and sampling	12
6.1 Sample grouping	12
6.2 Sample maintenance prior to testing	12
6.2.1 General	12
6.2.2 Groups 1 and 2	13
6.2.3 Groups 3 and 4	13
6.3 Removing water from sample	13
6.3.1 General	13
6.3.2 Groups 1 and 2	14
6.3.3 Groups 3 and 4	14
7 Preparation of apparatus	14
8 Apparatus verification	16
8.1 Level follower	16
8.2 Electronic temperature-measurement devices	16
8.3 Electronic pressure measuring device	17
9 Procedure — Manual apparatus	17
10 Procedure — Automated apparatus	20
11 Calculations	21
12 Expression of results	24
13 Precision (Manual Apparatus)	25
13.1 General	25
13.2 Repeatability	26
13.3 Reproducibility	26
14 Precision (automated apparatus)	27
14.1 General	27
14.2 Repeatability	27
14.3 Reproducibility	27
14.4 Bias	28
14.4.1 Bias	28
14.4.2 Relative bias	29
15 Test report	29
Annex A (normative) Thermometer specifications	30

Annex B (normative) Determination of temperature-sensor lag times	31
Annex C (normative) Determination of specified distillation data	32
Annex D (informative) Examples of data calculations	34
Annex E (informative) Emulation of emergent-stem errors	37
Annex F (informative) Examples of a test report	38
Bibliography	40

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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).

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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*.

This fifth edition cancels and replaces the fourth edition (ISO 3405:2011), which has been technically revised. The main changes compared to the previous edition are as follows:

- extension of the scope to include synthetic and biological products in general and automotive petrol-ethanol blends and to diesel with up to 30 % (V/V) FAME specifically;
- the procedure has been aligned with ASTM D86^[1] and ASTM International has granted usage of its precision data on 5 July 2017;
- update of the precision (for automated apparatus) for groups 1, 2, and 3, with the slope-based precision obtained from a 2010 Interlaboratory Study^[2];
- for T95, group 4 now has a valid range of 260 °C to 360 °C and an updated precision, as a review of a 2006 Interlaboratory Study revealed the absence of some group 4 samples having a final boiling point near 360 °C, as well final boiling points above;
- the test report example in Annex F has been updated as group 0 is not addressed since the fourth edition of this document;
- introduction of a solution for the replacement of mercury-in-glass thermometers.

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.

