

Methods for

Determination of density or relative density of petroleum and petroleum products (pycnometer methods)

The European Standard EN ISO 3838 : 1995 has the status of a
British Standard

ICS 75.200

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Change of identifier

Wherever BS 4699 : 1985 appears in this standard, it should be read as BS EN ISO 3838 : 1996.

National foreword

This British Standard has been prepared by PTI/12 and is the English language version of EN ISO 3838 : 1995 *Crude petroleum and liquid or solid petroleum products — Determination of density or relative density — Capillary-stoppered pycnometer and graduated bicapillary pycnometer methods* published by the European Committee for Standardization (CEN). It is identical with ISO 3838 : 1983 published by the International Organization for Standardization (ISO).

Cross-references

International standards	Corresponding British Standard
ISO 91-1 : 1992	BS 6441 : 1983 <i>Schedule for petroleum measurement tables</i> (Identical)
ISO 653 : 1980	BS 5074 : 1974 <i>Specification for short and long solid-stem thermometers for precision use</i> (Technically equivalent)
ISO 3507 : 1976	BS 733 <i>Pyknometers</i> Part 1 : 1983 <i>Specification</i> (Identical)

Additional information. The reference temperature of 20 °C to which the tables in ISO/R 91 : Addendum 1 relate is rarely used for petroleum measurement in the United Kingdom.

Textual errors. When adopting the text of the international standard, the textual errors listed below were discovered. They have been marked in the text and have been reported to ISO in a proposal to amend the text of the international standard.

In 5.5, paragraph 3, line 1 'pyknometers' should be read as 'pycnometer'.

In table 3, the last two columns, ' Δp ' should be read as ' $\Delta\rho$ '.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

ICS 75.200

Descriptors: Petroleum products, crude oil, liquids, solids, pycnometric analysis, density (mass/volume), density measurement, testing conditions, test equipment, calibration

English version

**Crude petroleum and liquid or solid petroleum products —
Determination of density or relative density —
Capillary-stoppered pycnometer and graduated bicapillary
pycnometer methods**
(ISO 3838 : 1983)

Pétrole brut et produits pétroliers liquides ou solides — Détermination de la masse volumique ou de la densité relative — Méthodes du pycnomètre à bouchon capillaire et du pycnomètre bicapillaire gradué
(ISO 3838 : 1983)

Rohöl und flüssige oder feste Mineralölerzeugnisse — Bestimmung der Dichte oder der relativen Dichte — Verfahren mittels Pycnometer mit Kapillarstopfen und Bikapillar-Pycnometer mit Skale
(ISO 3838 : 1983)

This European Standard was approved by CEN on 1995-09-09. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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