

**Methods of test for petroleum  
and its products —  
BS 2000-189/190:  
Crude petroleum and liquid  
or solid petroleum  
products — Determination of  
density or relative density —  
Capillary-stoppered  
pycnometer and graduated  
bicapillary pycnometer  
methods**

**(Identical with IP 189/190-2005)**

The European Standard EN ISO 3838:2004 has the status of a  
British Standard

ICS 75.040; 75.080

# National foreword

This British Standard is the official English language version of EN ISO 3838:2004. It is identical with ISO 3838:2004. It supersedes BS EN ISO 3838:1996 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/13, Petroleum testing and terminology, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

**Energy Institute, under the brand of Institute of Petroleum publishes and sells all parts of BS 2000, and all BS EN petroleum test methods that would be part of BS 2000, both in its annual publication “Standard methods for analysis and testing of petroleum and related products and British Standard 2000 parts” and individually.**

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## Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 28 May 2004

## Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to iv, pages 1 to 18, an inside back cover and a back cover.

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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 3838:2004)

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 3838:2004)

Rohöl und flüssige oder feste Mineralölerzeugnisse -  
Bestimmung der Dichte oder der relativen Dichte -  
Verfahren mittels Pycnometer mit Kapillarstopfen und  
Bikapillar-Pycnometer mit Skale (ISO 3838:2004)

This European Standard was approved by CEN on 8 April 2004.

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## Foreword

This document (EN ISO 3838:2004) has been prepared by Technical Committee ISO/TC 28 "Petroleum products and lubricants" in collaboration with Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2004, and conflicting national standards shall be withdrawn at the latest by November 2004.

This document supersedes EN ISO 3838:1995.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## Endorsement notice

The text of ISO 3838:2004 has been approved by CEN as EN ISO 3838:2004 without any modifications.