

Gas analysis — Preparation of calibration gas mixtures using dynamic volumetric methods —

Part 10: Permeation method

ICS 71.040.40

National foreword

This British Standard is the UK implementation of EN ISO 6145-10:2008. It is identical with ISO 6145-10:2002. It supersedes BS ISO 6145-10:2002 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee PTI/15, Natural gas and gas analysis.

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

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

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 25 March 2002

Amendments/corrigenda issued since publication

Date	Comments
28 February 2009	This corrigendum renumbers BS ISO 6145-10:2002 as BS EN ISO 6145-10:2008

© BSI 2009

ISBN 978 0 580 60362 4

English Version

Gas analysis - Preparation of calibration gas mixtures using
dynamic volumetric methods - Part 10: Permeation method (ISO
6145-10:2002)

Analyse des gaz - Préparation des mélanges de gaz pour
étalonnage à l'aide de méthodes volumétriques
dynamiques - Partie 10: Méthode par perméation (ISO
6145-10:2002)

Gasanalyse - Herstellung von Kalibriergasgemischen mit
Hilfe von dynamisch-volumetrischen Verfahren - Teil 10:
Permeationsverfahren (ISO 6145-10:2002)

This European Standard was approved by CEN on 30 July 2008.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

The text of ISO 6145-10:2002 has been prepared by Technical Committee ISO/TC 158 "Analysis of gases" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 6145-10:2008 by Technical Committee CEN/SS N21 "Gaseous fuels and combustible gas" the secretariat of which is held by CMC.

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 February 2009, and conflicting national standards shall be withdrawn at the latest by February 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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

Endorsement notice

The text of ISO 6145-10:2002 has been approved by CEN as a EN ISO 6145-10:2008 without any modification.

Contents

Page

Introduction	v
1 Scope	1
2 Normative reference	1
3 Principle.....	1
4 Reagents and materials	2
5 Apparatus	2
6 Procedure	5
6.1 Preliminary checks and operating conditions.....	5
6.2 Determination of mass loss.....	6
7 Expression of results	7
7.1 Calculation	7
7.2 Sources of uncertainty.....	8
7.3 Estimation of uncertainties.....	10
7.4 Example calculation of uncertainties	13
Annex A (informative) Example of uncertainty calculation for a two-pan continuous weighing system.....	14
Bibliography	16

Introduction

This part of ISO 6145 is one of a series of standards dealing with various dynamic volumetric methods used for the preparation of calibration gas mixtures.

