



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN ISO 8178-5:1998**

ICS 13.040.40

**RECIPROCATING INTERNAL COMBUSTION  
ENGINES - EXHAUST EMISSION  
MEASUREMENT - PART 5: TEST FUELS (ISO  
8178-5:1997)**

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## **Foreword**

The text of the International Standard ISO 8178-5:1997 has been prepared by Technical Committee ISO/TC 70 "Internal combustion engines" in collaboration with Technical Committee CEN/TC 270 "Internal combustion engines", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by February 1998, and conflicting national standards shall be withdrawn at the latest by February 1998.

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

## **Endorsement notice**

The text of the International Standard ISO 8178-5:1997 was approved by CEN as a European Standard without any modification.

NOTE : Normative references to International Standards are listed in annex ZA (normative)

**Annex ZA** (normative)  
**Normative references to international publications  
 with their relevant European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 2719	1988	Petroleum products and lubricants - Determination of flash point - Pensky-Martens closed cup method	EN 22719	1993
ISO 3015	1992	Petroleum products - Determination of cloud point	EN 23015	1994
ISO 3104	1994	Petroleum products - Transparent and opaque liquids - Determination of kinematic viscosity and calculation of dynamic viscosity	EN ISO 3104	1996
ISO 3735	1975	Crude petroleum and fuel oils - Determination of sediment - Extraction method	EN ISO 3735	1995
ISO 3830	1993	Petroleum products - Determination of lead content of gasoline - Iodine monochloride method	EN ISO 3830	1995
ISO 3993	1984	Liquefied petroleum gas and light hydrocarbons - Determination of density or relative density - Pressure hydrometer method	EN ISO 3993	1995
ISO 4256	1996	Liquefied petroleum gases - Determination of gauge pressure - LPG method	EN ISO 4256	1996
ISO 4260	1987	Petroleum products and hydrocarbons - Determination of sulfur content - Wickbold combustion method	EN 24260	1994
ISO 4264	1995	Petroleum products - Calculation of cetane index of middle-distillate fuels by four-variable equation	EN ISO 4264	1996
ISO 5163	1990	Motor and aviation-type fuels - Determination of knock characteristics - Motor method	EN 25163	1993
ISO 5164	1990	Motor fuels - Determination of knock characteristics - Research method	EN 25164	1993
ISO 6245	1993	Petroleum products - Determination of ash	EN ISO 6245	1995

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	(concluded)	<u>EN</u>	<u>Year</u>
ISO 6246	1995	Petroleum products - Gum content of light and middle distillate fuels - Jet evaporation method		EN ISO 6246	1997
ISO 6326-5	1989	Natural gas - Determination of sulfur compounds - Part 5: Lingener combustion method		EN ISO 6326-5	1997
ISO 7536	1994	Petroleum products - Determination of oxidation stability of gasoline - Induction period method		EN ISO 7536	1996
ISO 7941	1988	Commercial propane and butane - Analysis by gas chromatography		EN 27941	1993
ISO 8178-1	1996	Reciprocating internal combustion engines - Exhaust emission measurement - Part 1: Test-bed measurement of gaseous and particulate exhaust emissions		EN ISO 8178-1	1996
ISO 8754	1992	Petroleum products - Determination of sulfur content - Energy-dispersive-X-ray fluorescence method		EN ISO 8754	1995
ISO 10370	1993	Petroleum products - Determination of carbon residue - Micro method		EN ISO 10370	1995

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## **Reciprocating internal combustion engines — Exhaust emission measurement —**

### **Part 5: Test fuels**

*Moteurs alternatifs à combustion interne — Mesurage des émissions de  
gaz d'échappement —*

*Partie 5: Carburants d'essai*



Reference Number  
ISO 8178-5:1997(E)

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