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STANDARD

ISO

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## Road vehicles — Engine test code — Net power

*Véhicules routiers — Code d'essai des moteurs — Puissance nette*

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 1585 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Sub-Committee SC 5, *Engine tests*.

This third edition cancels and replaces the second edition (ISO 1585 : 1982), of which it constitutes a technical revision.

NOTE — This International Standard is also the basis for the following parallel documents:

ISO 2288 : 1989, *Agricultural tractors and machines — Engine test code (bench test) — Net power*.

ISO 4106 : 1978, *Road vehicles — Motorcycles — Engine test code — Net power*

ISO 4164 : 1978, *Road vehicles — Mopeds — Engine test code — Net power*

ISO 9249 : 1989, *Earth-moving machinery — Engine test code — Net power*

ISO 2534 : 1974, *Road vehicles — Engine test code — Gross power*, provides a similar test code for gross power.

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# Road vehicles — Engine test code — Net power

## 1 Scope

This International Standard specifies a method for testing engines designed for automotive vehicles. It applies to the evaluation of their performance with a view, in particular, to presenting curves of power and specific fuel consumption at full load as a function of engine speed.

It applies only to net power assessment.

This International Standard concerns internal combustion engines used for propulsion of passenger cars and other motor vehicles, excluding motorcycles, mopeds and agricultural tractors (see the note in the foreword), normally travelling on roads and included in one of the following categories:

- reciprocating internal combustion engines (spark-ignition or compression-ignition) but excluding free piston engines;
- rotary piston engines.

These engines may be naturally aspirated or pressure-charged, either using a mechanical supercharger or turbocharger.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2710 : 1978, *Reciprocating internal combustion engines — Vocabulary*.

ISO 3104 : 1976, *Petroleum products — Transparent and opaque liquids — Determination of kinematic viscosity and calculation of dynamic viscosity*.

ISO 3173 : 1974, *Road vehicles — Apparatus for measurement of the opacity of exhaust gas from diesel engines operating under steady state conditions*.

ISO 3675 : —<sup>1)</sup>, *Crude petroleum and liquid petroleum products — Laboratory determination of density or relative density — Hydrometer method*.

ISO 5163 : 1990, *Motor and aviation-type fuels — Determination of knock characteristics — Motor method*.

ISO 5164 : 1990, *Motor fuels — Determination of knock characteristics — Research method*.

ISO 5165 : 1992, *Diesel fuels — Determination of ignition quality — Cetane method*.

ISO 7967-1 : 1987, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 1: Structure and external covers*.

ISO 7967-2 : 1987, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 2: Main running gear*.

ISO 7967-3 : 1987, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 3: Valves, camshaft drive and actuating mechanisms*.

ISO 7967-4 : 1988, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 4: Pressure charging and air/exhaust gas ducting systems*.

ISO 7967-5 : 1992, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 5: Cooling systems*.

ISO 7967-8 : 1990, *Reciprocating internal combustion engines — Vocabulary of components and systems — Part 8: Starting systems*.

ASTM D 240-87, *Standard test method for heat of combustion of liquid hydrocarbon fuels by bomb calorimeter*.

ASTM D 3338-88, *Standard test method for estimation of heat of combustion of aviation fuels*.

1) To be published. (Revision of ISO 3675 : 1976.)