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Road vehicles — M14 × 1,25 compact spark-plugs with conical seating and their cylinder head housing

*Véhicules routiers — Bougies d'allumage M14 × 1,25 "compactes" à
siège conique et leur logement dans la culasse*



Reference number
ISO 2347:1994(E)



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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 2347 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 1, *Ignition equipment*.

This fifth edition cancels and replaces the fourth edition (ISO 2347:1987), of which it constitutes a technical revision.

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International Organization for Standardization

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Road vehicles — M14 × 1,25 compact spark-plugs with conical seating and their cylinder head housing

1 Scope

This International Standard specifies the main characteristics of M14 × 1,25 compact spark-plugs with conical seating and their cylinder head housing, for use with spark-ignition engines.

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 68:1973, *ISO general purpose screw threads — Basic profile*.

ISO 261:1973, *ISO general purpose metric screw threads — General plan*.

ISO 965-1:1980, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*.

ISO 965-3:1980, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional threads*.

3 Requirements

3.1 Terminals

The spark-plug terminal may be either the solid post or the threaded type. A spark-plug with threaded ter-

minal on which a nut is applied shall respect the dimensions specified for spark-plugs with solid post terminals. See figure 1.

3.2 Dimensions and threads

See figures 1 and 2.

3.2.1 Length dimensions

The length dimensions are measured from a gauging plane defined by diameter 14,8 mm on the seating.

3.2.2 Dimensions of spark-plug housing in cylinder head

The length dimensions Z and 2 mm max. in the cylinder head are measured from a gauging plane defined by diameter 14,8 mm on the seating.

The Z length of the spark-plug housing in the cylinder head shall be sufficient to ensure that the end of the spark-plug thread does not project into the combustion chamber at any point when the spark-plug is tightened to the maximum torque specified in 3.4.

3.2.3 Threads

3.2.3.1 Spark-plug and cylinder head

The threads of M14 × 1,25 spark-plugs and the corresponding tapped holes in the cylinder head shall conform to ISO 68, ISO 261, ISO 965-1 and ISO 965-3. Their limiting dimensions and their tolerance classes shall be as specified in 3.2.3.1.1 and 3.2.3.1.2 respectively.

3.2.3.1.1 Limiting dimensions

The limiting dimensions shall be as given in table 1.