
**Passenger car tyres — Method for
measuring ice grip performance —
Loaded new tyres**

*Pneumatiques pour voitures particulières — Méthode de mesurage de
l'adhérence sur glace — Pneumatiques neufs en charge*



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

The method for measuring ice grip performance described in this document is meant to reduce the variability of the performance measurement. The use of the proper reference tyres limits the variability of the testing method procedures.

Passenger car tyres — Method for measuring ice grip performance — Loaded new tyres

1 Scope

This document specifies the method for measuring the relative ice grip performance index of a candidate tyre compared with a reference tyre under loaded conditions for new tyres intended to be used for passenger cars on surfaces made of ice.

This document applies to all passenger car tyres, except for T-type temporary-spare tyres.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4000-1, *Passenger car tyres and rims — Part 1: Tyres (metric series)*

ISO 4223-1, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

ASTM F2493, *Standard Specification for P225/60R16 97S Radial Standard Reference Test Tire*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4000-1 and ISO 4223-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

3.1

test tyre

candidate tyre (3.3), *reference tyre* (3.4) or *control tyre* (3.5)

3.2

test run

single pass of a loaded tyre over a given test surface

3.3

candidate tyre

T

test tyre (3.1) that is part of an evaluation programme

3.4

reference tyre

SRTT

R

special *test tyre* (3.1) that is used as a benchmark in an evaluation programme

Note 1 to entry: The reference tyre is defined in ASTM F2493.