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Fourth edition
2019-04

Passenger cars — Braking in a turn — Open-loop test method

*Voitures particulières — Freinage en virage — Méthode d'essai en
boucle ouverte*



Reference number
ISO 7975:2019(E)

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	1
5 Variables	2
5.1 Reference system.....	2
5.2 Variables to be measured.....	2
6 Measuring equipment	2
6.1 Description.....	2
6.2 Transducers and their installation.....	3
6.3 Data processing.....	3
7 Test conditions	3
8 Test methods	3
8.1 Run-in program for newly installed brakes (pads/shoes).....	3
8.2 Warm-up.....	3
8.3 Brake temperature.....	4
8.4 Initial driving condition.....	4
8.5 Performance of the braking procedure.....	4
8.6 General test description.....	5
9 Data evaluation and presentation of results	5
9.1 General.....	5
9.2 Time histories.....	5
9.3 Braking action.....	5
9.3.1 Reference point in time, t_0	5
9.3.2 Definition of times and requirements for standard evaluation.....	6
9.3.3 Mean longitudinal acceleration, $-\bar{a}_X$	6
9.3.4 Mean longitudinal acceleration, $-\bar{a}_{X,t_n}$, until time t_n	7
9.4 Evaluation of characteristic values.....	7
Annex A (normative) Presentation of results	11
Bibliography	22

Foreword

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This document was prepared by ISO/TC 22, *Road vehicles*, Subcommittee SC 33, *Vehicle dynamics and chassis components*.

This fourth edition cancels and replaces the third edition (ISO 7975:2006), which has been technically revised. The main changes compared to the previous edition are as follows:

- recognizing regenerative braking and active control systems.

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Introduction

The main purpose of this document is to provide repeatable and discriminatory test results.

The dynamic behaviour of a road vehicle is a very important aspect of active vehicle safety. Any given vehicle, together with its driver and the prevailing environment, constitutes a closed-loop system that is unique. The task of evaluating the dynamic behaviour is therefore very difficult since the significant interaction of these driver-vehicle-environment elements are each complex in themselves. A complete and accurate description of the behaviour of the road vehicle will necessarily involve information obtained from a number of different tests.

Since this test method quantifies only one small part of the complete vehicle handling characteristics, the results of these tests can only be considered significant for a correspondingly small part of the overall dynamic behaviour.

Moreover, insufficient knowledge is available concerning the relationship between overall vehicle dynamic properties and accident avoidance. A substantial amount of work is necessary to acquire sufficient and reliable data on the correlation between accident avoidance and vehicle dynamic properties in general and the results of these tests in particular. If this test method is used for regulation purposes, the correlation between test results and accident statistics should be checked.