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## Motorcycle tyres — Test methods for verifying tyre capabilities

*Pneumatiques pour motocycles — Méthodes d'essai pour la vérification  
de l'aptitude des pneumatiques*



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## Foreword

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The main task of technical committees is to prepare International Standards. 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.

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.

ISO 10231 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This third edition cancels and replaces the second edition (ISO 10231:1997), which has been technically revised.

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# Motorcycle tyres — Test methods for verifying tyre capabilities

## 1 Scope

This International Standard specifies test methods for verifying the capabilities of tyres for motorcycles. Of the test methods presented, only some may be required depending on the type of tyre to be tested.

The tests are carried out in the laboratory under controlled conditions.

It includes a strength test for assessing the capability of the tyre structure, with respect to breaking energy, in the tread area.

A second test, the endurance test, assesses the resistance of the tyre with respect to service at full load and moderate speed over long distances.

The third test, the high-speed test, assesses the capability of the tyre as related to service at the maximum speed capability of the tyre. It is not applicable to tyres with a speed capability below 130 km/h.

The centrifugal growth test assesses the maximum growth of the tyre under the influence of centrifugal forces at the maximum speed capability of the tyre. This is applicable only to road tyres with speed symbols P and above.

The test methods presented in this International Standard are not intended for gradation of tyre performance or quality levels.

This International Standard is applicable to all motorcycle tyres.

## 2 Normative references

The following referenced documents are indispensable for the application 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 4223-1:1989, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

ISO 5751-1:2001, *Motorcycle tyres and rims (metric series) — Part 1: Design guides*

ISO 5751-2, *Motorcycle tyres and rims (metric series) — Part 2: Tyre dimensions and load-carrying capacities*

## 3 Terms and definitions

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

### 3.1

#### **bead separation**

breakdown of bond between components in the bead area