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Road vehicles — Brake linings — Effects of heat on dimensions and form of disc brake pads — Test procedure

Véhicules routiers — Garnitures de freins — Effets de la chaleur sur les dimensions et la forme des patins de freins à disque — Méthode d'essai

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Descriptors : road vehicles, brake linings, brake shoes, disk brakes, tests, dimensional stability tests, heating tests, test equipment.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6313 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in November 1978.

It has been approved by the member bodies of the following countries :

Austria	Ireland	Spain
Belgium	Italy	Sweden
Brazil	Japan	Switzerland
Bulgaria	Korea, Dem. P. Rep. of	Turkey
Czechoslovakia	Mexico	United Kingdom
Denmark	Netherlands	USA
France	Poland	USSR
Germany, F. R.	Romania	Yugoslavia
India	South Africa, Rep. of	

No member body expressed disapproval of the document.

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Road vehicles — Brake linings — Effects of heat on dimensions and form of disc brake pads — Test procedure

0 Introduction

This International Standard describes a method for measuring dimensional changes of disc brake pads under the influence of heat. At the same time, it gives an indication of the resistance of whole disc brake pads to heat transfer in the direction of applied pressures. According to the design of the test rig, either one or two disc brake pads are required for testing. An extension of this International Standard for drum brake linings has still to be prepared.

Dimensional changes and the temperatures recorded in accordance with this test method in the zone of contact of the operating forces are measured on disc brake pads whose rubbing surface is pressed against a heated plate subjected to a given temperature-time programme.

1 Scope and field of application

This International Standard specifies a combined method of measuring disc brake pads to determine their dimensional changes in relation to temperature and their resistance to heat transfer.

The dimensions concerned are :

- thickness dimension;
- certain dimensions of the lining outline when their variation may involve a malfunctioning of the brake.

This International Standard applies to disc brake pads for road vehicles. Their dimensions should not exceed 80 mm in depth, 120 mm in width and 20 mm in thickness, being of integral moulded or bonded type, and the backing plate of solid type.

2 Reference

ISO 611, *Braking of motor vehicles and their trailers — Terminology*.

3 Symbols and designations

For general definitions, see ISO 611.

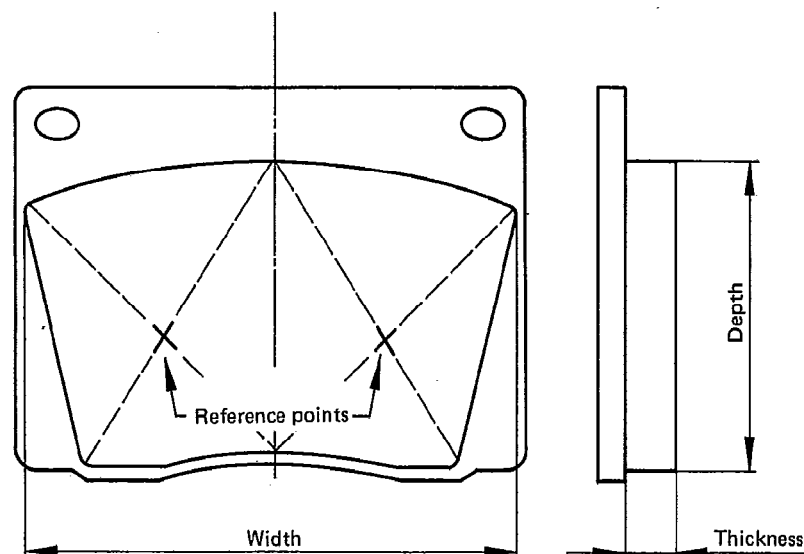


Figure 1 — Principal dimensions and determination of reference points