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INTERNATIONAL STANDARD



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION ΜΕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Road vehicles — Brake linings — Disc brake pads — Evaluation of surface and material flaws after testing

Véhicules routiers — Garnitures de freins — Patins de freins à disque — Mesurage des défauts de surface et de matériau après les essais



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Foreword

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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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7629 was prepared by Technical Committee ISO/TC 22, Road vehicles.

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Road vehicles — Brake linings — Disc brake pads — Evaluation of surface and material flaws after testing

0 Introduction

Disc brake pads may show damage after being subjected to vehicle or laboratory tests. This International Standard has the purpose of specifying a method of describing some of this damage.

1 Scope and field of application

This International Standard identifies the types of flaws of surface and material after testing of disc brake pads, and specifies the method of measuring these flaws and of setting out the results.

This International Standard applies to disc brake pads intended for fitting to the brakes of road vehicles.

2 Identification of defects

The presence of a flaw is decided only if it is detectable with the naked eye.

Flaws to be considered are of four types:

Type I -- Cracks (see figure 1)

Type II - Edge flaking (see figure 2)

Type III - Blistering and pitting (see figure 3)

Type IV — Material separation from the support or material lamina separation (see figure 4)

3 Measuring equipment

Transparent millimetric grid of sufficient area to cover the whole area on which defects are to be measured (see figure 5).

4 Measurement method

4.1 Preliminary measurements

4.1.1 On the lining, prior to testing, measure and record:

a) the lining height measured on the lining median line, H, in millimetres (see figure 1), or, for non-symmetrical shapes, the maximum height;

b) the friction surface area, A_0 , in square millimetres.

4.1.2 Determine a reference point A, located at the middle of height H (see figure 5).

4.2 Measurement of flaws

4.2.1 Flaws of type I (see figure 1)

Measure the length, *l*, of each crack.

Position the millimetric grid on point A, as illustrated in figure 5.

Count the cracks within the 10 mm \times 10 mm area which has the greatest density of cracks. All cracks partially crossing the area are to be included.

4.2.2 Flaws of types II and III (see figures 2 and 3)

Place the millimetric grid on the work surface. Determine the area of each flaw with the naked eye.

NOTE – For simplicity, edge flaking can be characterized by $a \times b$ (see figure 2).

4.2.3 Flaws of type IV (see figure 4)

Measure the length, L.