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GB/T 3903.2-2008

Replacing GB/T 3903.2-1994

Footwear - General test methods - Abrasion resistance

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Foreword

This Part of GB/T 3903 replaces GB/T 3903.2-1994 "General test method for footwear - Test method of abrasion resistance".

Compared with GB/T 3903.2-1994, the main changes of this Part are as follows:

- The standard name is changed to "Footwear- General test methods- Abrasion resistance";
- Add Chapter 2 Terms and definitions;
- Add the requirements to grinding-wheel aperture;
- Add the requirements to test conditions;
- Increase the flexibility of requirements to specimen quantity;
- Reduce the idling time of testing machine.

This Part was proposed by China National Light Industry Council.

This Part shall be under the jurisdiction of National Footwear Standardization Technical Committee.

Drafting organizations of this Part: China Leather and Footwear Industry Research Institute, Aokang Group Co., Ltd. AND Guohui (China) Co., Ltd.

Main drafters of this Part: Yan Hongwei, Wang Zhentao, Ding Guoshi, Zhang Xianzhong and Liu Qi.

The previous editions replaced by this Part are as follows:

- GB 3905-1983;
- GB/T 3903.2-1994.

Footwear - General test methods - Abrasion resistance

1 Scope

This Part of GB/T 3903 specifies the whole-shoe's soles and molded bottom (tablets) abrasion resistant test method.

This Part applies to the determination of the whole-shoe's soles and molded bottom (tablets) abrasion resistance.

2 Terms and definitions

The following terms and definitions apply to this Part of GB/T 3903.

2.1

Abrasion resistance

The wear-scar length that is measured after using abrasion test machine and using rotating steel grinding-wheel to wear, for a certain time, to the flat outsoles.

3 Principle

Rotating grinding-wheel is vertically pressured on the specimen; under specific conditions, conduct abrasion test to the specimen; measure the wear-scar length of the specimen; it is used to represent the abrasion resistance of the specimen.

4 Sampling and environmental conditioning

4.1 Whole-shoe, soles or smooth specimen can be used as a specimen.

4.2 Each set of specimens are generally not less than 2 shoes, soles or pieces.

4.3 Pretreatment of specimen: treat the surface that may affect the test result; the specimens' surface is required to be flat; the area shall be sufficient for abrasion; under the test conditions, the specimens shall be placed for more than 4h.

5 Instruments and equipment

5.1 Requirements of abrasion test machine are as follows:

5.1.1 Grinding-wheel is T12 steel grinding-wheel of $\Phi(20\pm0.1)$ mm $\times$ (4 ± 0.1) mm; aperture is (6 ± 0.02) mm, having 72 teeth; tooth-angle is $90^\circ\pm5^\circ$; tooth-tip width is (0.2 ± 0.05) mm; tooth-tip roughness Ra is 3.2 μ m; hardness is ≥ 55 HRC; concentricity is 0.03 mm.

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