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**Footwear - Chemical tests - General principles on the
preparation of samples
(English Translation)**

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Table of Contents

Foreword...	3
1 Scope...	5
2 Normative references...	5
3 Terms and definitions...	5
4 Identification system...	7
5 Sample preparation...	11
Annex A (normative) Color identification...	14
Annex B (informative) Shoe materials...	16
Annex C (normative) Sample preparation process...	23
Bibliography...	24

Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents".

The modification of this document adopts ISO 21061.2021 "Footwear -- Chemical tests".

Compared with ISO 21061.2021, this document has made the following structural adjustments.

- The order of Annex B and Annex C has been changed (see Annex B, Annex C of this Document; Annex C, Annex B of ISO 21061.2021).

The technical differences between this document and ISO 21061.2021 and their reasons are as follows.

- ISO 19952 was replaced by the normative reference GB/T 2703 to adapt to China's technical conditions and improve operability (see Chapter 3 of this Document);
- The definitions of accessible component and inaccessible component were changed (see 3.4, 3.5 of this Document; 3.4, 3.5 of ISO 21061.2021) to adapt to China's technical conditions and improve operability;

- ISO 4044 was replaced by the normative reference QB/T 2716 to adapt to China's technical conditions and improve operability (see 5.5 of this Document);
- The sampling requirements were changed to adapt to China's technical conditions and improve operability (see 5.5 of this Document; 5.5 of ISO 21061.2021);
- Annex B was changed from "normative" to "informative" to adapt to China's technical conditions, improve operability (see Annex B of this Document; Annex C of ISO 21061.2021);
- The process sequence of Figure C.1 "General flow chart for sample preparation" was changed (see Figure C.1 of this Document; Figure B.1 of ISO 21061.2021).

The following editorial changes were made to this document.

- The notes and examples of the term and definition of "component in contact with the skin" have been changed (see 3.1 of this Document; 3.1 of ISO 21061.2021);
 - The definition of sample has been changed (see 3.8 of this Document; 3.8 of ISO 21061.2021);
 - The description of components in Table 1 has been changed (see Table 1 of this Document; Table 1 of ISO 21061.2021).
- Footwear -- Chemical tests -- General principles on the preparation of samples

1 Scope

This document establishes procedures for the preparation of samples for chemical test of footwear and footwear components. It further describes methods for identifying samples.

The sample preparation procedures specified in this document are intended to allow multiple chemical tests to be conducted on footwear simultaneously.

This document applies to all types of footwear and footwear components.

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.

GB/T 2703, Determination of dropping point for lubricating greases and solid hydrocarbons (GB/T 2703-2017, ISO 19952.2005, NEQ)

QB/T 2716, Leather -- Preparation of chemical test samples (QB/T 2716-2018, ISO 4044.2008, MOD)

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 2703 as well as the followings apply.

3.1 component in contact with the skin

Parts that come into direct contact with the skin of the foot (leg) when worn.

Examples. Lining, inside of tongue, insole (if no insole) and insole are components in contact with the skin.

NOTE: If the shoe is unlined, the inside of the upper is considered the lining and is the component in contact with the skin.

other techniques), rubber boot uppers (lining is completely integrated into the rubber), sole materials (injection molded soles, insole is completely integrated into the outsole), foam with adhesive or foam with adhesive residue, etc.

3.7 composite test sample

A mixture of different test samples of the same material from the same pair of shoes.

3.8 sample

Raw materials, semi-finished products or finished products.

4.1 General

For each sample, the following parameters should be described.

- Component;
- Color;
- Material category;
- Additional information.

Table 1 shows examples of sample identification.

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