

Chemical Industry Standard of the People's Republic of China HG/T 4905-201 HG/T 4905-2016

业和信息化制标准推批公示 Tennis Shoes

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(English Translation)

(报批稿)

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工业和信息化制制和推批公示

工业和信息人工工作

工业和相思化制制和推批公元 工业和信息。化钢标准推推

工业和信息化部标准报批公示 工业和信息化制标准推批公示

工业和自思化制制和推推批公司 工业和信息机械扩张水流

Foreword

n charge SAC/TC35/SC9 is in charge of this English translation. In case of any doubt about the contents of English translation, the Chinese original shall be considered authoritative.

This standard is drafted in accordance with the rules given in the GB/T 1.1-2009.

This standard was proposed by China Petroleum and Chemical Industry Federation.

This standard was prepared by SAC/TC35/SC9 (Subcommittee on Rubber Shoes of China National Standardization Technical Committee on Rubber and rubber products).

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工业和自思化制制和推推批公司 工业和信息机械扩张水流

工业和信息化部标准报批公示 Tennis shoes 工业和信息机器标准推准公示 工业和情况机器和新港推进 工业和信息化部标准批公示 Scope

This standard specifies requirements, test methods, inspection rules, marking, packaging, transportation and storage of tennis shoes.

This standard is applicable to tennis shoes used for professional competition and training.

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 251 Textiles - Tests for color fastness - Grey scale for assessing color staining

GB/T 2912.1-2009 Textiles - Determination of Formaldehyde - part 1: Free and hydrolyzed formaldehyde (water extraction method)

GB/T 2941 Rubber - General procedures for preparing and conditioning test pieces for physical test methods GB/T 3293.1 Shoe size

GB/T 9867-2008 Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using a rotating cylindrical drum device

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GB/T 17592-2011 Textiles - Determination of the banned azo colorants

GB/T 21396-2008 Footwear - Test method for whole shoe - Upper sole adhesion

GB 25038-2010 Rubber shoe health and safety specification

标准报批公示 HG/T 2198 Vulcanized rubber – the general requirements for the physical test method

HG/T 2403-2007 Test rule, marking, packaging, transport, storage of rubber shoes

HG/T 3689-2014 Test method of discoloration for footwear

HG/T 3780-2005 Test method of static slip resistance for footwear

QB/T 2882-2007 Footwear - Test methods for uppers, linings and insock- Color fastness to rubbing

Requirements

Shoe size, shoe last size

Shoe size shall meet the requirements given in GB/T 3293.1.

Shoe last size could be determined based upon the agreement between suppliers and buyers.

3. 2 Appearance quality

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Appearance of	quality shall meet the requirements given in table 1.		
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Item	Requirement		
Whole shoe	Upright and flat; flat insock; the corresponding parts of the same pair of shoe shall be basically same (excluding special design); clean inner & outer shoe; no missing bonding or delamination at the joint point of upper & sole (side-wall); no obviously visible defects.		
Upper, lining and insock	No mixed yarn, skipping threads and obvious stains; no crack, coating peel-off or color-fading.		
Outsole	Smooth surface; the corresponding parts of the same pair of shoe shall be basically same in pattern, color, hardness, thickness and side-wall inclination (excluding special design).		
Decorative accessories	Firmly assembled, symmetrical (excluding special design); no significant appearance defects, no sharp points and sharp edges.		

3. 3 Physical properties

accessories	and sharp edges.	113.10	1.1275
3.3 Physic	cal properties		是一种 利比·
Physical pro	perties shall meet the requiremen	ts given in table 2	1A 200
	Item	1. Mr. 20	Requirement
Outsole abrasi	on resistance/mm ³	7	≤120
Whole shoe slip resistance (backward forepart)			≥0.7
Upper sole adhesion/(N/mm)			≥2.5
Yellowing res	istance/ grade		≥3-4
Color fastness	to rubbing of lining and insock / grade		Color staining ≥2-3

3. 4 Health and safety properties

Health and safety properties shall meet the requirements given in table 3.

Table 3 Health and safety properties

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Item	Requirement
Free formaldehyde existed in textile materials, artificial leather and synthetic leather used for upper, lining and insock/(mg/kg)	≤150
Decomposable aromatic amine dye existed in textile materials, artificial leather and synthetic leather used for upper, lining and insock 4/(mg/kg)	≤30
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Annex A of GB 25038-2010 gives the list of carcinogenic aromatic amine which are forbidden to be decomposed from dyes under reducing condition.

Test methods

It shall follow HG/T 2198 and GB/T 2941.

4. 2 Appearance applied

Test shall be performed according to clause 3.1.3 of HG/T 2403-2007.

4. 3 Outsole abrasion resistance

Test shall be performed. Test shall be performed according to method A of GB/T 9867-2008, test is done on forepart force-bearing parts.

4. 4 Whole shoe slip resistance (backward forepart)

Test shall be performed according to method 2 of HG/T 3780-2005.

Test shall be performed according to GB/T 21396-2008.

4. 6 Yellowing resistance

Test shall be performed according to method A of HG/T 3689-2014, test time is 6h, test part: materials in white or light color.

Color fastness to rubbing of lining and insock

Test shall be performed according to method A of QB/T 2882-2007. Use grey scale given in GB/T 251 to assess color staining after 50 cycles of wet rubbing with simulated perspiration solution.

4.8 Free formaldehyde

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Test shall be performed according to GB/T 2912.1-2009. Test upper, lining and insock separately if they are separatable. If upper and lining cannot be separated, test and assess them together by test method for lining.

Decomposable aromatic amine dye

Test shall be performed according to GB/T 17592-2011. Test upper, lining and insock separately if they are .ogethe separatable. If upper and lining cannot be separated, test and assess them together by test method for lining.

Inspection rules

Delivery inspection

5. 1. 1 Lot

For products with same type, raw material, formula and production conditions, an inspection lot means 1 to 6 days outputs, and the maximum batch not exceeding 10,000 pairs.

5. 1. 2 Inspection item and sample size

Products shall pass the inspection of appearance quality and physical properties before delivery. Appearance quality shall be performed on each pair of shoe, physical properties shall be performed on 3 pairs of shoes randomly sampled from each lot. Inspection items include all requirements given in table 1 and table 2 of this standard. Products can only be delivered after qualified from inspection and with a qualification label (or 业。图 图 图 qualification mark).

5. 2 Type inspection

Circumstances requiring type inspection

Type inspection shall be performed in any of the following cases:

- a) When there are significant changes on product structure, technique and materials;
- b) When production is resumed after stop production for more than half year;
- c) When national quality supervision authorities require to do type inspection;
- d) Upon normal inspection, type inspection shall be performed at least every half year;
- e) When it is required in contracts.

5. 2. 2 Inspection item and sample size

Type inspection items include all requirements given in this standard, randomly sample 4 pairs from each lot 祖信原作機 for inspection.

1. 推公示

5.3 **Qualification rules**

The lot of products is determined as qualified if all required inspection items meet standard requirements. If there are one or more items failed to meet standard requirements, it is allowed to do double sampling and re-inspect failed items. The lot of products is determined as qualified if re-inspection results meet standard requirements, otherwise it is concluded as unqualified. The lot of products is determined as unqualified for health and safety properties if any of free formaldehyde and decomposable aromatic amine dye does not meet standard requirements.

Marking, packaging, transportation and storage

Marking, packaging, transportation and storage shall meet the requirements given in HG/T 2403-2007.

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