

China Footwear Testing Standards (Overview)

China Market Testing and Knowledge Services Solution

TÜV SÜD - Softlines

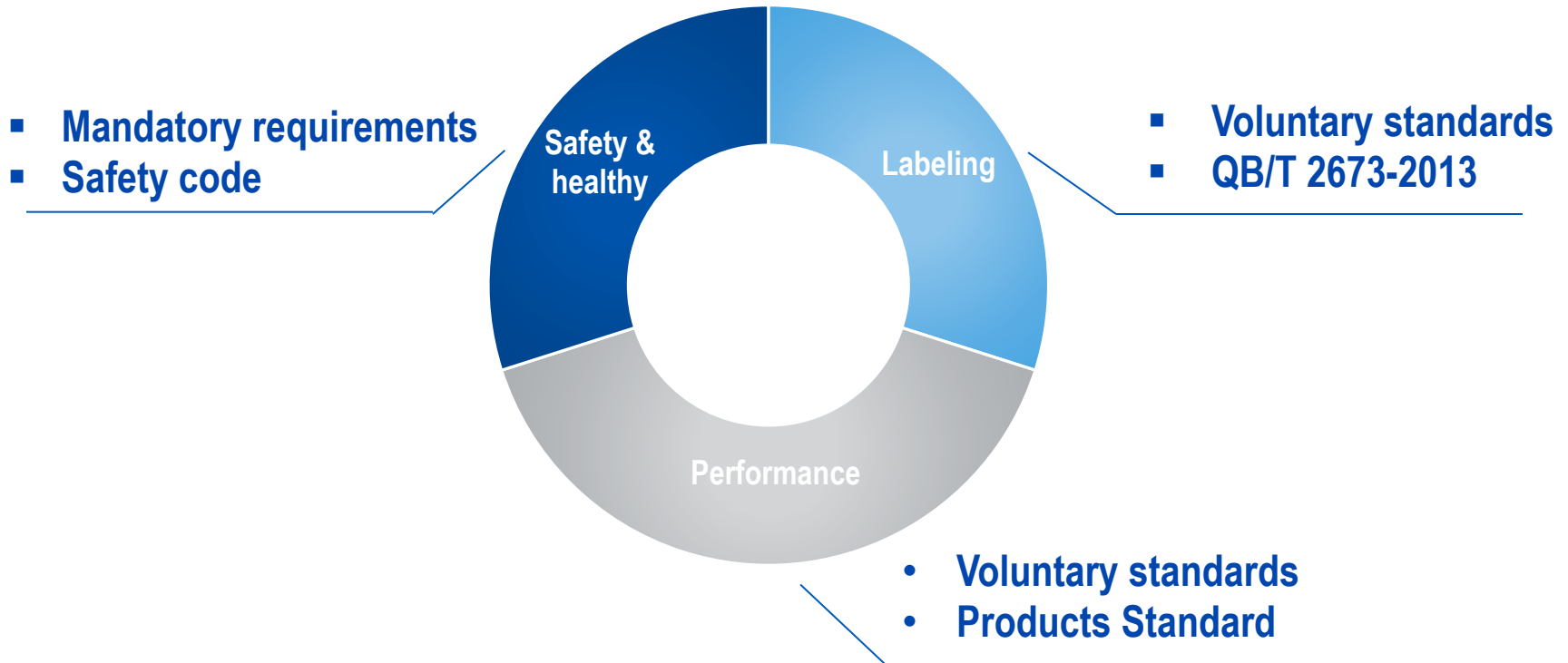


**Choose certainty.
Add value.**



Chinese standard identification

Scope	Mandatory standard	Voluntary standard
National standard	GB	GB/T
Industrial standard	QB, HG....	QB/T, HG/T....
Province standard	DB	DB/T
Enterprise standard	Q/XXXX	Q/XXXX



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- A background image showing a child's legs and feet. The child is wearing white socks and is in the process of putting on or adjusting a pair of white lace-up shoes. The scene is set on a dark wooden floor. In the foreground, there are several colorful shoes: a red polka-dot shoe, a green shoe, and a pink shoe. To the right, there are two shopping bags, one orange and one pink, and a white shoe box with a pink ribbon.
- Children footwear :GB 30585-2014
 - Children's canvas rubber footwear : GB 25036-2010
 - Rubber Shoes :GB 25038-2010
 - Shanks of footwear :GB 28011-2011
 - Leather and Fur: GB 20400-2006
 - Polyvinyl Chloride Artificial Leather: GB 21550-2008

❖ **Scope :**

- Apply to daily wearing shoes which are made by all kinds of materials and designed for children under the age of 14 (sizes are not greater than 250).
- Not apply to children's rubber footwear.

❖ **Product category**

- Infants' shoes: Shoes are designed for infants under 3 years of age, and size is not more than 170.
- Children shoes: Shoes are designed for 3-7 years old children, and size is more than 170 but less than 250.



❖ Physical Safety Performance

- No remains of nail point
- No sharp point /sharp edge
- No Remains Of Broken Sewing Needle
- Infants: No small parts
- Infants: Attachment strength $\geq 70\text{N}$
- Effective heel-height $\leq 25\text{mm}$
- Comply the requirement of GB 20811



❖ Odor

- Grade ≤ 2 (Slight odor, but not draw attention)



Safety technical specification for children's footwear

GB 30585-2014



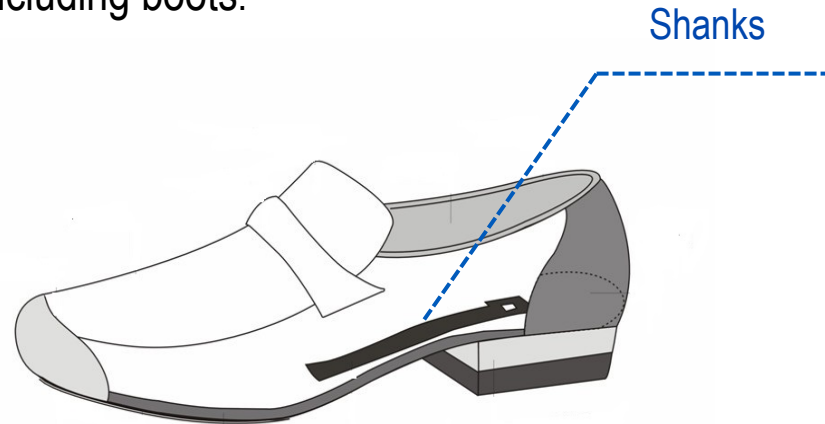
Number	Test Item		Requirement	
1	Cr VI in Leather and fur		$\leq 10\text{mg/kg}$	
2	Banned Azo Dyes	Textile	$\leq 20\text{mg/kg}$	
		Leather and fur	$\leq 30\text{mg/kg}$	
3	Formaldehyde	Infants	$\leq 20\text{mg/kg}$	
		Contact skin	$\leq 75\text{mg/kg}$	
		No Contact skin	$\leq 300\text{mg/kg}$	
4	Heavy metal	As	$\leq 100\text{mg/kg}$	
		Pb	$\leq 100\text{mg/kg}$	
		Cd	$\leq 100\text{mg/kg}$	
5	Dimethyl fumarate (DMF)		$\leq 0.1\text{mg/kg}$	
6	N-Nitrosamine in Rubber Components (Infants shoes)		Not Detected	
7	Phthalate	Infants	DINP、DIDP、DNOP	$\leq 0.1\%$
			DEHP、DBP、BBP	$\leq 0.1\%$
		Children	DEHP、DBP、BBP	$\leq 0.1\%$

❖ Scope

- Apply to metal shanks use in footwear ,including boots.

❖ Test Item

- Labelling
- Appearance
- Dimension allowance
- Limits according to length
- Longitudinal rigidity
- Fatigue resistance
- Hardness
- Flexual properties



❖ Scope

- Apply to rubber shoes which use textile materials as upper , and made by the hot vulcanization process .





❖ Healthy and safety Requirement

Position	Test Item	Requirement	
Upper /Lining (Textile, Synthetic material)	pH Value	4.0~9.0	
	Free Formaldehyde	Type A \leq 75mg/kg	
		Type B \leq 150mg/kg	
	Heavy metal	As	\leq 1.0 mg/kg
		Pb	\leq 1.0mg/kg
		Cd	\leq 0.1mg/kg
	Banned Azo Dyes		Not Detected
	Chlorinated phenols	PCP	Not Detected
		2,3,5,6-TeCP	Not Detected
Rubber Components	N-Nitrosamine	Not Detected	
Lining	Color Fastness to rubbing	Type A \geq Grade 3	
		Type B \geq Grade 2~3	

Remark: Type A-Infants' rubber shoes; Type B-The rubber shoes except infants' rubber shoes

❖ Scope

- Apply to children canvas rubber shoes consists of textile upper , rubber outsole or other elastic sole. And the shoes sizes are under 245.



❖ Healthy and safety Requirement

Position	Test Item	Requirement	
Upper /Lining (Textile, Synthetic material)	pH Value	4.0~9.0	
	Free Formaldehyde	Type A \leq 75mg/kg	
		Type B \leq 150mg/kg	
	Heavy metal	As	\leq 1.0 mg/kg
		Pb	\leq 1.0mg/kg
		Cd	\leq 0.1mg/kg
	Banned Azo Dyes		Not Detected
	Chlorinated phenols	PCP	Not Detected
		2,3,5,6-TeCP	Not Detected
Rubber Components	N-Nitrosamine	Not Detected	
Lining	Color Fastness to rubbing	Type A \geq Grade 3	
		Type B \geq Grade 2~3	

Remark: Type A-Infants' canvas rubber shoes; Type B-The rubber shoes except infants' canvas rubber shoes

❖ Main Physical Requirement

Position	Test Item	Requirement
Upper /Lining	Remains Of Broken Sewing Needle	Not Detected
Whole shoes	Sharp edge	Not Detected
	Sharp Point	Not Detected
	Small part(before and after use and abuse test)	Type A: No small parts
Outsole	Thickness	See standard
Package	Mean thickness of plastic package	≥0.038mm
Outsole	Tensile strength	≥7.0MPa
	Elongation at break	≥320%
	Abrasion(volume loss)	≤1.8cm ³
	Hardness	≤70Shore A
Upper to sole	Sole bond	≥1.6N/mm
Whole shoes	Workman ship	See standard
	Labeling	See standard

❖ Scope

- Apply to leather and fur.
- Not apply to leather and fur which are used in industry and special industry.

❖ Limits of harmful matter

Test	Requirements		
	Type A Infants' products	Type B Contact skin products	Type C Not contact skin products
Banned Azo Dyes	≤30mg/kg		
Formaldehyde	≤20mg/kg	≤75mg/kg	≤300mg/kg (white shorn sheepskin- ≤600mg/kg)

- Athletic Shoes: GB/T 15107-2013
- Casual shoes: QB/T 2955-2008
- Leather shoes: QB/T 1002-2015
- Leather sandals : GB/T 22756-2008
- Cloth Shoes : QB/T 4329-2012
- Slippers: QB/T 4552-2013
- Black rubber rain shoes : HG/T 2019-2011
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❖ Scope

This standard is applicable to ordinary casual shoes using natural leather, artificial leather, synthetic leather, textile, blended material as upper material. The standard is not applicable to casual shoes for children.





❖ Requirement

1. General Requirement
2. Sensory Quality
3. Peeling Strength
4. Whole Shoe Flexing Resistance
5. Abrasion resistance of outsole
6. Adhesive strength between outsole and insole
7. Low-temperature flexing resistance of upper material
8. Color fastness to rubbing of lining and inner cushion (staining)
9. Fiber board flexing index of insole
10. Banned azo dyestuff
11. Free formaldehyde content

❖ Scope

This standard is applicable to daily wearing shoes for sports, practice, fitness, walking, jogging etc, but not include professional sport shoes.



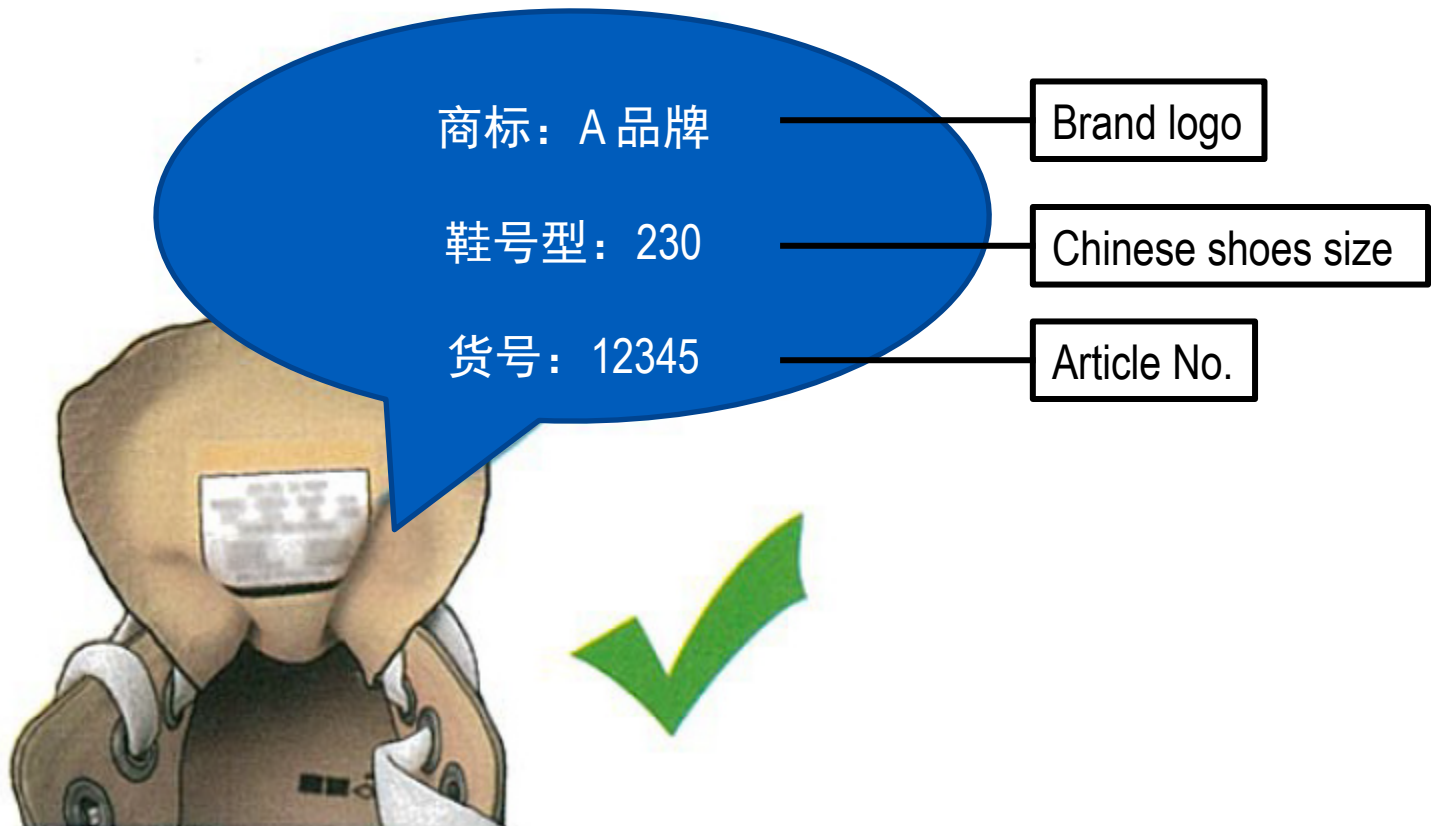


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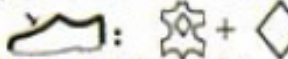
❖ On Shoes:

Each shoes should have brand logo (or company name) and Chinese shoes size and article No.



❖ On Inner package:



品名：女旅游鞋 ————— Product Name
鞋号型：230（1.5） ————— Shoe Size
材质：牛剖层革+其他材料
或  ————— Material Type
产地：XX省XX市 ————— Country of origin
生产厂家：XX鞋业公司
电话：000—12345678 ————— Name and contact of company
地址：XX省XX市XX路XX号
执行标准：GB/T15107-2013 ————— Executive standard Code
生产日期：2014-01-01 ————— Manufacturing date
颜色：棕色 ————— Color
货号：12345 ————— Art. No.
质量等级：合格品 ————— Quality grade
三包规定：..... ————— "three guarantees" rule

❖ On Outer package:





		Import Stage	Domestic Market				
		CIQ	Landlord	AIC	QTS	CA	“Professional” Customer
General safety code requirement GB 30585 GB 20400 GB 25038 GB 25036 GB 28011 GB 21550	Action take	Port inspection (according to CIQ mandatory testing HS code list)	Specified GB Test report requested by some of the shopping mall and department store	Market spot check and lab test (national level & province level)	Market spot check and lab test (national level & province level)	Random check by CA and test by CA selected lab (government lab)	N/A
	Potential risk occurred once failed	Destroy or return back to original port	Ban to sell in this shopping mall / department store	Big penalty and media exposure	Pull off shelves and media exposure	Media exposure	N/A

Market Supervision Matrix – Product Standard



		Import Stage	Domestic Market				
		CIQ	Landlord	AIC	QTS	CA	“Professional” Customer
Product standard requirement	Action take	N/A	N/A	Market spot check and lab test (national level & province level)	Market spot check and lab test (national level & province level)	Random check by CA and test by CA selected lab (government lab)	Focus on certain critical test requirement (e.g.: colorfastness to wet rubbing) and send to a lab to do test
	Potential risk occurred once failed	N/A	N/A	Big penalty and media exposure	Pull off shelves and media exposure	Media expose	Triple money refund and media expose

**Contact us with your
GB Testing Needs!**

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