

SAFEGUARDS

SGS CONSUMER TESTING SERVICES

SOFTLINES

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STANDARD FOR CHILDREN'S CANVAS RUBBER FOOTWEAR (SHOES) IN CHINA

The General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China has launched a standard GB 25036-2010 for children's canvas rubber footwear.



STANDARD SCOPE

This standard is applicable to Children's Canvas Rubber Footwear (shoes) for sizes 245 and below, whose uppers are textile and whose soles are rubber or other elastomer.

The standard provides definitions, categories, requirements, testing methods, labeling requirements, packaging requirements and information about transportation and storage.

Products covered by the standard are divided into two categories:

- Type A: infants' canvas rubber soled footwear (ages ≤ 36 month infants, with shoe size not > 170) and



- Type B: Canvas and rubber shoes for older children (> 36 months < 14 years)

Articles 5.2 and 5.3 of this standard are mandatory; excluding pH value. The remaining items are recommended. The contents of mandatory items are the health and safety performance requirements for children's canvas rubber footwear.

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The safety requirements of clause 5.2 are shown in the table below.

PARTS	ITEMS	UNIT	RESTRICTION LIMIT		
			TYPE A	TYPE B	
Upper, lining, and innersole (textile material, synthetic material and artificial leather)	pH value (not mandatory)	-	4.0-9.0		
	Free and hydrolysed formaldehyde ≤	mg/kg	≤75	≤150	
	Extractable heavy metal	Lead (Pd) ≤	mg/kg	1.0	
		Cadmium (Cd) ≤		0.1	
		Arsenic (As) ≤		1.0	
	Azo Dyestuff- aromatic amines ^{a, b}	-	Forbidden		
	Chlorinated Phenols	Pentachlorophenol ^b (PCP)	mg/kg	Not detected	
Tetrachlorophenol ^b (TeCP)		Not detected			
Rubber part	N-nitrosamines ^{b, c}	mg/kg	Not detected		
Lining and innersole rubbing fastness ^d (staining) ≥		Grade	3	2-3	
Remarks:	a. Azo Dyestuff-produced banned aromatic amines list in Table A b. Banned aromatic amines limit 30 ppm, Pentachlorophenol (PCP) Tetrachlorophenol (TeCP) limit: 0.5mg/kg, N-nitrosamines limit: 0.5mg/kg c. Banned N-nitrosamines in Rubber list in Table B d. Using QB/T 2882-2007 method A, assessed by grey scale for staining after using artificial sweat solution and 50 rubbing cycles				

The physical safety requirements clause 5.3 are shown in the table below.

PARTS	ITEMS	REQUIREMENT	
		TYPE A	TYPE B
Upper, lining, and innersole	Broken needle	Not permitted	
Whole shoe	Accessible sharp edge (decoration, eyelet etc. accessories)	Not permitted	
	Accessible sharp point (decoration etc. accessories)	Not permitted	
	Removable or accessible trims after reasonable abuse	Removable or accessible trims after abuse should not be able to fit within the small cylinder specified in GB6675-2003 A.5.2	-
Packaging	Footwear plastic packaging bag thickness: (opening circumference ≥ 360 mm, depth and opening circumference total ≥ 584 mm. Not including the stretchable membrane for packing the shoe, this membrane will be broken during opening)	Average thickness should be equal to or greater than 0.038mm	-

TABLE A

23 Banned Aromatic Amines from AZO Dyestuffs

NAME	CAS NO.
4-aminodiphenyl	[92-67-1]
benzidine	[92-87-5]
4-chloro- <i>o</i> -toluidine	[95-69-2]
2-naphthylamine	[91-59-8]
2-aminoazotoluene	[97-56-3]
2-amino-4-nitrotoluene	[99-55-8]
<i>p</i> -chloroaniline	[106-47-8]
2,4-diaminoanisole	[615-05-4]
4,4'-diaminodiphenylmethane	[101-77-9]
3,3'-dichlorobenzidine	[91-94-1]
3,3'-dimethoxybenzidine	[119-90-4]
3,3'-dimethylbenzidine	[119-93-7]
3,3'-dimethyl-4,4'-diaminodiphenylmethane	[838-88-0]
<i>p</i> -cresidine	[120-71-8]
4,4'-methylene-bis-(2-chloroaniline)	[101-14-4]
4,4'-oxydianiline	[101-80-4]
4,4'-thiodianiline	[139-65-1]
2-toluidine	[95-53-4]
2,4-toluylenediamine	[95-80-7]
2,4,5-trimethylaniline	[137-17-7]
2-anisidine	[90-04-0]
2,4-xylydine	[95-68-1]
2,6-xylydine	[87-62-7]

TABLE B

Banned N-nitrosamines in Rubber

NO.	NAME	CAS NO.	CHEMICAL FORMULA
1	N-nitrosodimethylamine	62-75-9	C ₂ H ₆ N ₂ O
2	N-nitrosodiethylamine	55-18-5	C ₄ H ₁₀ N ₂ O
3	N-nitrosodipropylamine	621-64-7	C ₆ H ₁₄ N ₂ O
4	N-nitrosodibutylamine	924-16-3	C ₈ H ₁₈ N ₂ O
5	N-nitrosopiperidine	100-75-4	C ₅ H ₁₀ N ₂ O
6	N-nitrosopyrrolidine	930-55-2	C ₄ H ₈ N ₂ O
7	N-nitrosomorpholine	59-89-2	C ₄ H ₈ N ₂ O ₂
8	N-nitroso-N-methylaniline	614-00-6	C ₇ H ₈ N ₂ O
9	N-nitroso-N-ethylaniline	612-64-6	C ₈ H ₁₀ N ₂ O

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