



FOOTWEAR TESTING FOR US MARKET



We ensure the quality and durability for the footwear market

CTC Group is the world leader in footwear quality assurance and can provide the necessary support for the footwear to be released on the US market.

CTC is CPSIA accredited in China and France. Our testing experts can help you to identify consumer needs and provide you with targeted solutions for specific problems.

We are glad to customize your quality and testing program for your unique footwear products.

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CTC's experience covers different physical tests in order to ensure the quality and durability for the footwear market

PHYSICAL TESTING	STANDARD
Color fastness to crocking	AATCC8-ASTM D 5053
Upper/Sole adhesion	ISO 17708
Slip resistance	ASTM F 609 ASTM F 489
Heel Attachment	ASTM F 2232 ISO 22650
Slide fastener resistance	ASTM D 2061 ASTM D 2062
Water resistance of upper (Maeser)	ASTM D 2099
Heel fatigue resistance	EN ISO 19956
Sizes conformity	ASTM F 539
Corrosion resistance	ASTM B 117
Color fastness to perspiration	AATCC 15
Tear strenght resistance Upper (trouser)	ASTM D 4704
Tear strenght resistance Upper (double)	ASTM D 2212
Thickness	ASTM D 1813
Sole flexing resistance	ISO 17707 (Bennewart)
	Bata belt test pm 133
	ASTM D 1052 (Rossflex)
Strap pulling strenght	instron method
Touch and close fastener peeling strength	DIN 3415 prEN ISO 22777
	ASTM D 5170
Touch and close fastener shearing strength	DIN 3415 prEN ISO 22777
	ASTM D 5169
Abrasion resistance	ISO 4649 (method A)
	ASTM D 1639
Whole shoe water resistance	in House Method
Water absorption	ISO 22649
Water vapor permeability	IUP 15, EN ISO 14268
Laces resistance (Abrasion through eyelets)	DIN 4843 PM 93 prEN ISO 22774
Abrasion resistance (Martindale)	BS 5690 ASTM D 4966 ISO 12947-1
	EN ISO 20344 §6.12
Abrasion resistance (Tabber)	ASTM D 3884
Flexing resistance	FIA 15, IUP 20, ISO 5402
Grain crack and extension of leather (Mullen test)	ASTM D 2210
Adhesion of finishing	IUF 470, ISO 11644
Elongation	ASTM D 2211
Tensile strength	ASTM D 2209
Stitch tear strength of leather	ASTM D 4705
Seam strength resistance	EN 13572
Mechanical Hazard - use and abuse	CPSIA (16 CFR 1500.51-53)
Sharp points before and after use and abuse	CPSIA (16 CFR 1500.48 and 49)
Sharp edges before and after use and abuse	CPSIA (16 CFR 1500.48 and 49)
Small part before and after abuse	CPSIA (16 CFR 1501)

Here is the chemical analysis suggestions we CTC propose based on Proposition 65 California and Consumer Product Safety Improvement Act(CPSIA)

SUBSTANCES	USA REGULATION - CATEGORY	REQUIREMENTS	STANDARD USED
Phtalates / Phthalates	Federal regulation CPSIA	0.1% BBP, DBP, DEHP, DiNP,DnHP, DnPP, DiBP	CPSC CH-C1001-09.3
	Proposition 65 California	DEHP, DBP, BBP, DiNP, DiDP, DnHP <0.1% on accessibles parts	CPSC CH-C1001-09
Plomb / Lead	Proposition 65 applicable only in California	<100 mg/kg on accessibles parts	CPSC-CH-E1002-09
	Proposition 65 applicable only in California	<200 mg/kg on accessibles parts	CPSC-CH-E1002-10
	Proposition 65 applicable only in California	<300 mg/kg on accessibles parts	CPSC-CH-E1002-11
	Regulation CPSIA	<100 mg/kg	CPSC-CH-E1001-08
	Regulation CPSIA	<100 mg/kg	CPSC-CH-E1002-08
	Regulation CPSIA	90 mg/kg in paint	CPSC-CH-E1003-09
	Regulation CPSIA	<100 mg/kg for metal support (base metal)	
Regulation CPSIA	100 mg/kg for textiles		