

### Intertek Standard of High-Performance Mark for Footwear (International Market)

Descriptors	Testing	Method & Index	Requirement
Anti-Bacterial	Anti-Bacterial	AATCC TM100, ASTM E2149, ASTM E2180, ISO 22196	>95% reduction in bacterial growth
Breathable	Breathability	ISO 17699	Upper: min 0.8mg/cm <sup>2</sup> .hour Lining: min 2.0mg/cm <sup>2</sup> .hour
Cushioning	Cushioning	Whole shoe: EN ISO 20344,5.14	Min 20 Joules
Moisture wicking	Wicking	AATCC TM197, 4 hours	Wicking height: max 10mm
Odor-Repellent	Deodorization	ISO 17299-1&2&3 CNS 17299-1 L3274-1, CNS 17299-2 L3274-2, CNS 17299-3 L3274-3	1. ≥70% for Ammonia and Acetic acid or 2. ≥75% for Nonenal; or 3. ≥85% for Isovaleric acid
Oil-Repellent	Oil Repellency	AATCC TM118	Min grade 3
Shock-Absorbing	Shock Absorption	ASTM F1976, ASTM F1614	Sneakers/Trainers/Racket Sports: Forepart: Max 200m/s <sup>2</sup> ; Heel part: Max 150m/s <sup>2</sup> ; Casual Shoes: Forepart: Max 250m/s <sup>2</sup> ; Heel part: Max 200m/s <sup>2</sup> ; Town Shoes: Forepart: Max 350m/s <sup>2</sup> ; Heel part: Max 300m/s <sup>2</sup> ;
Slip - Resistant	Slip Resistant	EN ISO 13287	Ceramic tile with NaSL: Flat: Min.0.30; Heel: Min.0.28
		ASTM F2913	Clay Tile Surface, for children: Forepart/heel: dry & wet: Min.0.30 Flat: dry & wet: Min.0.40 Other shoes: Forepart/heel: dry & wet: Min.0.30
		ASTM F1677	Olean quarry tile, Min. Dry:0.8; wet:0.7; 0.05g oil/0.05g oil+water:0.4; 0.2g oil/0.2g oil+water:0.35
Insulation against Cold	Thermal Insulation	ISO 20877	Max. 10 °C temperature decrease on the upper surface of the insole
Washable	Washable shoe	ISO 19954 EN ISO 6330:2012; Washing Procedure 4N	No Damage and No Obvious Change In Dimension. Less than one half size shrinkage, No loss of adhesion, No significant colour loss or other damage
Waterproof	Waterproof	EN ISO 20344,5.15.2	No penetration after 20,000 cycles





		<b>Water level is 5mm above feather line or 25mm above ground, whichever is the least</b>	
		<b>GB/T 16641</b> <b>Water level: the half distance between sole to upper junction and upper to tongue stitching point, flexing angle: 45°, 60 cycles/min</b>	No penetration after 20,000 cycles
		<b>EN 13073</b>	Total Area of Water Penetration After 100 Trough Lengths Shall Be Not Greater Than 3 cm <sup>2</sup>
		<b>ISO 2023 for rain boots</b>	No leakage