

Intertek					
CAN/CSA Z195-14: Protective Footwear					
09.01.2016					
Test	Pass/Fail Criteria; Preconditioning	Procedure	Cost	Samples	Category of N/C
Design	Sec. 4 – construction; None	Checklist (inspection)	\$35	1 pair	Critical
Toecap Impact (Grade 1 and Grade 2)	5.1.1 When struck in accordance with Clause 6.2.1 with the energy and velocity specified in Table 1, the internal toe clearance shall be not less than that specified in Table 2 and the protective toecap shall not fracture through the thickness; Ambient	Clause 6.2.1	\$200/up to 3 sizes	1 each size	Critical
			Amb. \$75 ea. Add'l		
			\$250/up to 3 sizes low temp. \$75 ea. Add'l		
Toecap Corrosion	5.1.2 Metallic protective toecaps shall not be adversely affected by corrosion ; Exposed for 24 hrs to a 5% salt solution	ASTM B117	\$150/up to 3 sizes \$50 ea. Add'l	1 each size	Major A
Protective Sole Penetration	5.2.1 The protective sole insert (plate), as a separate item, shall withstand a force of not less than 1200 N; Ambient	Clause 6.3.1	\$150/up to 3 sizes \$50 ea. Add'l	1 each size	Major A
		ASTM F2412			
Protective Sole Corrosion	5.2.2 Metallic protective sole plates shall not be adversely affected by corrosion ; Exposed for 24 hrs to a 5% salt solution	ASTM B117	\$150/up to 3 sizes \$50 ea. Add'l	1 each size	Major A
Protective Sole Flexing	5.2.3 When tested in accordance with the method specified in Clause 6.3.2, the protective sole insert (plate) shall show no signs of visible cracking after it has been subjected to 1.5 million ( $1.5 \times 10^6$ ) flexes.	Clause 6.3.2	\$1500/up to 3 sizes \$1500 ea. Add'l 3	1 each size	Major A
Metatarsal Impact	5.3.2 When impacted in accordance with Clause 6.4.2 at an energy level of 101.7 J and an impact velocity of $2.99 \pm 0.06$ m/s, the metatarsal protector clearance shall be not less than 24.4 mm for men's footwear, and not less than 21.4 mm for woman's footwear. In addition, the metatarsal protector shall not fracture through its thickness.	Clause 6.4.2	TBD	Men's size 9, woman's size 8	Critical
Metatarsal Corrosion	5.3.3 Metallic metatarsal protectors shall not be adversely affected by corrosion; Exposed for 24 hrs to a 5% salt solution	ASTM B117	\$150/up to 3 sizes \$50 ea. Add'l	1 each size	Major A
Electric Shock	5.4 Under dry conditions, each test specimen shall withstand a test potential of 18 kV 60 Hz for a period of 1 min. without disruptive discharge to ground. The leakage current shall not exceed 1 mA when tested in accordance with Clause 6.5.2.	Clause 6.5.2	\$200 up to 3 sizes \$25 ea. Add'l	1 each size	Critical
Static Dissipative Footwear – Conventional (SD)	5.5.1 When tested in accordance with Clause 6.6.2, each test specimen shall fall within a range of $10^6$ to $10^8$ W for a period of 5 sec.	Clause 6.6.2	\$200	1 each size	Critical
Static Dissipative Footwear – Super (SD+)	5.5.2 Each test specimen shall fall within a range of $10^6$ W to $3.5 \times 10^7$ W	ASTM F2412	\$200	1 each size	Critical
Conductive Footwear	5.6 When tested in accordance with Clause 6.7.2, each test specimen shall fall within a range of 0 to 500,000 W for a period of 5 sec.	Clause 6.7.2	\$150/up to 3 sizes \$25 ea. Add'l	1 each size	Critical
Marking and Labeling	7 At least 1 shoe or boot of each pair shall have the information permanently marked in a conspicuous location.	Clause 6	\$35	1 pair	Minor

NOTE: SEI adds a 10% surcharge to all testing when invoiced to the participant.