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SAFETY SHOE FS05BL(SWSAPN)



CERTIFIED TO EN ISO 20345:2011, IS 15298 (PART-02):2016, PROTECTION LEVEL S1, DESIGN A

1	DESIGN	CONSTRUCTION	Special Injection Molded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
		THREAD	Black 6 ply
		EYELET	12 Nos / Pair, Aluminum Passivated
		LACES	90 cm Round Laces with Breaking Strength 50-60 kg.
2	TOE PROTECTION	GENERAL	• Toe-Caps are incorporated in such a way that they cannot be removed. • Footwear is lined in the Toe Section. • The lining at the edge of the toe caps extends to more than 5 mm beneath it, and more than 10 mm behind it.
		CONSTRUCTION	Made from high Carbon Steel and Heat Treated.
		INTERNAL LENGTH OF TOE CAP	Above 39 mm.
		IMPACT RESISTANCE	When tested at an impact energy of 200 Joules, the clearance under the toe caps at impact is above 14.0 mm.
		COMPRESSION RESISTANCE	When tested at a compression load of 15 kN, the clearance under the toe caps at impact is above 14.0 mm
		CORROSION RESISTANCE OF TOE CAPS	Exhibits not more than three areas of corrosion and none of which shall more than 2 mm in any direction.

3	LEATHER UPPER	CONSTRUCTION	Made from Buff Black Grain Apollo Leather.
		THICKNESS	2.0 mm $\pm$ 0.2 mm
		TEAR STRENGTH	Above 120 N.
		TENSILE STRENGTH	Above 15 N/mm ² .
		WATER VAPOUR PERMEABILITY	Above 0.8 mg/cm ² /h
		WATER VAPOUR COEFFICIENT	Above 15 mg/cm ²
		CHROME VICCONTENT	$\leq$ 3.0 mg/kg.
4	TONGUE	TEAR STRENGTH	Above 18 N.
5	VAMP LINING	CONSTRUCTION	Non-Woven Fabric
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm ² /h.
		WATER VAPOUR COEFFICIENT	Above 20 mg/cm ²
6	SHOE LINING	CONSTRUCTION	Soft Cambrel Black inner lining
		TEAR STRENGTH	Above 15 N.
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, and 12,800 wet cycles
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm ² /h.
		WATER VAPOUR COEFFICIENT	Above 20 mg/cm ²

7	INSOLE	CONSTRUCTION	Insole is incorporated in such a way that it cannot be removed.
		THICKNESS	Above 2.0 mm.
		WATER ABSORPTION & DESORPTION	Above 70 mg/cm ² Above 80%.
		ABRASION RESISTANCE	No damage to the insole when exposed to 400 cycles.
8	INSOCK	MATERIAL & COLOUR	Soft EVA and laminated with Soft Netlon Fabric
		THICKNESS	Above 2.0 mm
		MARTINDALE ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 drycycles, and 12,800 wet cycles
9	OUTSOLE	CONSTRUCTION	Single Density Polyurethane
		COLOUR	Black
		THICKNESS	Above 4 mm.
		TEAR STRENGTH	More than 5 kN/m.
		ABRASION RESISTANCE	Volume loss is less than 250 mm ³ .
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		INTERLAYER BOND STRENGTH	NA
		RESISTANCE TO FUEL OIL	Below 12%.
		UPPER TO SOLE BOND STRENGTH	Above 4 N/mm
		CLEATED OUTSOLE	More than 45% of fore-part covered with cleats. More than 25% of heal portion is covered with Cleats

10	ANTISTATIC PROPERTY		After conditioning in a dry and wet atmosphere, the electrical resistance is above 100 K ohms and below 1000 M ohms.
11	ENERGY ABSORPTION OF SEAT REGION		Above 20 joules.
12	ANTI SLIP PROPERTY		Co-efficient of friction is more than 0.28 for heel region & more than 0.32 for flat region
13	HEAT INSULATION OF SOLE COMPLEX		Below 22° C. (The insulation cannot be damaged without damaging the footwear)
14	COLD INSULATION OF SOLE COMPLEX		Below 10° C. (The insulation cannot be damaged without damaging the footwear)
15	WEIGHT		Approx. 1.03 Kg / Pair (Size-8)