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KARAM®

FLYTEX

SAFETY SHOE
FS 201FN (FWSAMN)

TECHNICAL DATA SHEET

PROTECTION LEVEL: S1, CI, SRC

S.No	CLAUSE	DESCRIPTION	SPECIFICATION
1	DESIGN	CONSTRUCTION	Specially Injection Moulded Construction for enhanced strength.
		SEAT REGION	Closed
		HEIGHT OF UPPER	Less than 113 mm
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 Fiber/Composite Toe
		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

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3	UPPER	CONSTRUCTION	Made from Grey FLY KNIT Fabric
		TEAR STRENGTH	Above 60 N
		WATER VAPOUR PERMEABILITY	Above 2.0 mg/cm^2/h.
		WATER VAPOUR CO-EFFICIENT	Above 20 mg/cm^2
		pH VALUE	NA
		CHROME VI CONTENT	NA
4	TONGUE	TEAR STRENGTH	NA
5	VAMP 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 CO-EFFICIENT	Above 20 mg/cm^2
6	SHOE LINING	CONSTRUCTION	Soft Black Netlon 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
7	INSOLE	CONSTRUCTION	Insole is incorporated in such a way that it can not be removed.
		THICKNESS	Minimum 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.

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8	**INSOCK**	MATERIAL & COLOUR	Soft Moulded In-Socks & laminated with Fabric
		THICKNESS	Above 2.0 mm
		ABRASION RESISTANCE	The lining does not develop holes when exposed to 25,600 dry cycles, 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 below 250 mm^3.
		FLEXING RESISTANCE (30,000 CYCLES)	Cut growth is below 4 mm.
		HYDROLYSIS (150,000 CYCLES)	Cut growth is below 6 mm.
		CLEATS HEIGHT	Above 2.5mm
		UPPER TO SOLE BOND STRENGTH	Above 4 N/mm
		RESISTANCE TO FUEL OIL	Below 12%.
		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 22^0 C. (The insulation cannot be damaged without damaging the footwear)

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14	COLD INSULATION OF SOLE COMPLEX		Below 10^0 C. (The insulation cannot be damaged without damaging the footwear)
15	HOT CONTACT (PU SOLE)		No damage to PU sole when exposed to a temperature of 120° C for 1 minute.
16	WEIGHT		Approx. 800 gm /Pair (Size 8)

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