





INTERNATIONAL TESTING CENTRE

Accrediation for ISO/IEC 17025:2005 by DAkkS, Germany

Accredited by BIS India, approved by DGS&D, BGAOA, RITES, Air Headquarters, General Motors









TEST CERTIFICATE

Akkreditierungsstelle D-PL-11339-01-00

Supplier Contact

: Vijay Shoes Pvt. Ltd. : Mr Anand Agarwal

Material

: Safety Shoe (size- 8) Design A

Sample code : Batch No. 10/15

Specification : IS 15298 (Part-2) : 2011, Classification-I

Job Start Date: 30.10.2015

Job No.

Job Completion Date: 27.11.2015

: 2K1510558 Date of Entry : 26.10.2015

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Laboratory Environment

Temperature

 $23 \pm 2^{\circ}C$

Relative Humidity

 $50 \pm 5\%$ Sample was conditioned for 48 hours.

Product category

SB (Table 2 & 3)

Design

A

Upper

Leather

Lining

Quarter: Textile - Black

Vamp: Non Woven - Black

Tongue/Collar

Synthetic

Toe cap

Metallic

Insole

Present (Non-leather)

Insock

Sole

Full Insock (Textile), non-removable

PU (Single density)

S. No.	Test Name	Clause	Value	Requirement	Conformit
. Desig	gn	5.2	A	A	Conformit
a.	Height of upper	5.2.1	< 113 mm	< 113 mm	Conforms
b.	Seat Region	5.2.2	Closed		Conforms
	on Complete Footwear - 5.3	0.2.2	Closed	Closed	Conforms
a.	Construction	5.3.1.1		Insole can not be removed without damaging the footwear	Conforms
	Upper/Outsole bond strength	5.3.1.2	5.32 N/mm	4.0 N/mm (minimum)	Conforms
	Toe Protection : General	5.3.2.1	Toe-cap has been incorporated in such a way that it can not be removed without damaging the shoe. The toecaps have a	Toe-cap shall be incorporated in such a way that it can not be removed without damaging the shoe. The toe-caps shall have a vamp lining.	Conforms
	Covering beneath the toe-cap		> 5 mm	_	Conforms
	Covering in opposite direction		> 10 mm	10	Conforms
	Thickness of Scuff resistance		>1.0 mm	1.0	Conforms

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FOOTWEAR DESIGN & DEVELOPMENT INSTITUTE MINISTRY OF COMMERCE & INDUSTRY, GOVERNMENT OF INDIA

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S. No.	Test Name	Clause	Val	ue	Requirement	Conformit
d.	Internal length of toe caps	5.3.2.2	40.0 mm		39 mm (minimum)	Conforms
e.	Impact resistance (200 J)	5.3.2.3			14.0 mm (minimum)	Conforms
f.	Compression resistance (15 kN)	5.3.2.4			21.0 mm (minimum)	Conforms
g.	Behaviour of Toecap: 5.3.2.5 Corrosion resistance		No corrosion		Max. 3 area of corrosion, none shall measure more than 2 mm.	Conforms
h.	Specific ergonomic features	5.3.4			shari measare more than 2 mm.	
i.	Is the inside surface of the footwear free from rough sharp or hard areas that caused you irritation or injury			Yes	Yes/No	Conforms
ii.	Are there no pinch points cause by the toe-cap or the edge covering of the toe-cap?			Yes	Yes/No	Conforms
iii.	s the footwear free of features that you consider to make Y wearing the footwear hazardous?			Yes	Yes/No	Conforms
iv.	Can the fastening be adequately a	djusted (i	f necessary)?	Yes	Yes/No	Conforms
V.	Can the following activities be pe	rformed v		Comornis		
	Walking			Yes	Yes/No	Conforms
	Climbing stairs			Yes	Yes/No	Conforms
	Kneeling/crouching down			Yes	Yes/No	Conforms
. Test o	on Upper – 5.4				1 03/110	Comorms
a.	Tear strength	5.4.3	273 N		120 N (minimum)	Conforms
b.	Tensile strength		36.5 N/mm ²		15 N/mm² (minimum)	Conforms
	Water vapour permeability		0.89 mg/cm ² h		0.8 mg/cm ² h (minimum)	Conforms
d.	Water vapour coefficient	5.4.6	16.45 mg/cm ²		15 mg/cm ² (minimum)	Conforms
. Test o	on Vamp Lining - 5.5		0		is ingeni (minimum)	Comornis
	Tear strength	5.5.1	57.4 N		15 N(minimum)	Conforma
	Water vapour permeability		18.13 mg/cm ² h		2.0 mg/cm ² h(minimum)	Conforms Conforms
	Water vapour coefficient		145.57 mg/cm ²		20 mg/cm ² (minimum)	Conforms
	Martindale abrasion	5.5.2	No hole observed No hole observed		DRY-No hole till 25 600 cycles WET-No hole till 12 800 cycles	Conforms
Test o	n Quarter lining -5.5				WET THO HOTE till 12 800 Cycles	
	Tear strength	5.5.1	23.6 N		15 N (minimum)	Conforms
	Water vapour permeability		25.18 mg/cm ² h		2.0 mg/cm ² h (minimum)	Conforms
C.	Water vapour coefficient		202.27 mg/cm ²		20 mg/cm ² (minimum)	Conforms
	Martindale abrasion	5.5.2	No hole observed No hole observed		DRY-No hole till 25 600 cycles WET-No hole till 12 800 cycles	Conforms
Test of	n Tongue – 5.6 (same as upper)				& Deins	

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S. No.	And the second s	Clause		Requirement	Conformity
7. Test	on Insole & Insock (Full In	sock, no	n-removable) - 5	7	Comormity
a.	Thickness(Insole+Insock)	5.7.1	> 2.0 mm	2.0 mm (minimum)	Conforms
b.	Water absorption & Desorption(Insole+Insock	5.7.3	130.3 mg/cm ²	70 mg/cm ² (minimum) 80 %(minimum)	Conforms
C.	Martindale abrasion (Insock)	5.7.4.2	No hole observed No hole observed	DRY- No hole till 25 600 cycles WET- No hole till 12 800 cycles	Conforms
8. Test	on Outsole - 5.8			The field thi 12 doo cycles	
a.	Thickness	5.8.1	> 6.5 mm	6 mm (minimum)	Conforms
b.	Tear strength	5.8.2	5.82 kN/m	5 kN/m (min.)	Conforms
C.	Abrasion resistance	5.8.3	83 mm ³	250 mm ³ (max.)	Conforms
d.	Flexing resistance	5.8.4	No cut growth	4 mm (max) cut growth till 30,000 cycles	
e.	Hydrolysis Test	5.8.5		6 mm (max) cut growth till 150,000 cycles	Conforms Conforms
f.	Resistance to fuel oil	5.8.7	3.72 %	12 % (max)	Conforms

Rajesh Mishra (Senior Technologist)



Shailendra Saxena Chief Technologist & Head -Physical Laboratory

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