REPORT NO.: METSINTR/LFD/250509/0001	DATED:	29TH MAY 2025

TEST REPORT

ORIGINAL PHOTO OF THE SUBMITTED SAMPLE

		
Size: 35	**Size: 42**	**Size: 49**
		
OCU		

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APPLICANT	:	**SG EXPORTS**
CONTACT PERSON	:	MR. MOHMMAD IMRAN
ADDRESS	:	D1, D-6, D-196, D-197, D-198, D-232 & D-233 EPIP SITE-V KASNA GREATER NOIDA-201306, (U.P.) INDIA.

SAMPLE NOT DRAWN BY METS Laboratories India Pvt. Ltd.

SAMPLE DESCRIPTION	:	THE SUBMITTED SAMPLES ARE SAFETY FOOTWEAR.
ARTICLE NO.	:	OCU
COLOR	:	BLACK
MODEL	:	VICTOR
SIZE	:	35-49
BRAND	:	ZECCHIN
DESCRIPTION OF PPE	:	SAFETY FOOTWEAR (DESIGN-C)
CLASSIFICATION	:	EN ISO 20345:2022+A1:2024
CATEGORY	:	S3L HI CI FO LG SR
LAST	:	443
MOULD	:	V001
TOECAP	:	COMPOSITE TOE- 4430
UPPER	:	LEATHER
VAMP LINING	:	NON-WOVEN- 270 GSM
QUARTER LINING	:	COW MILD
SEAT REGION LINING	:	NON-WOVEN 300 GSM- BLACK
COLLAR / TONGUE	:	COW MILD
COLLAR LINING	:	COW MILD
INSOLE	:	KEVLAR
INSOCK	:	PU SOCKS FABRIC LAMINATED
OUTSOLE	:	PU- DOUBLE DENSITY
PENETRATION INSERT	:	KEVLAR
OUTSOLE MATERIAL CATEGORY	:	PU/PU
TESTING PERIOD	:	21st MAR 2025 TO 02nd APRIL 2025

S. NO.	TEST CONDUCTED	PASS	FAIL	DATA	COMMENT
1	HEIGHT OF UPPER	X			
2	HEEL AREA	X			
3	CONSTRUCTION	X			
4	UPPER/ OUTSOLE BOND STRENGTH	X			
5	TOE PROTECTION- GENERAL	X			
6	IMPACT RESISTANCE	X			
7	COMPRESSION RESISTANCE	X			
8	ERGONOMIC FEATURES	X			
9	GENERAL- UPPER	X			
10	TEAR STRENGTH - UPPER LEATHER	X			
11	WATER VAPOUR PERMEABILITY AND COEFFICIENT – UPPER LEATHER	X			
12	PH VALUE	X			
13	CHROMIUM VI CONTENT	X			
14	AZO DYES	X			
15	TEAR STRENGTH- QUARTER LINING	X			
16	ABRASION RESISTANCE- QUARTER LINING	X			
17	WATER VAPOUR PERMEABILITY AND COEFFICIENT – QUARTER LINING	X			
18	PH VALUE	X			
19	CHROMIUM VI CONTENT	X			
20	AZO DYES	X			
21	TEAR STRENGTH- TONGUE	X			

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22	PH VALUE- TONGUE	X			
23	CHROMIUM VI CONTENT	X			
24	AZO DYES	X			
25	DETERMINATION OF PERFORATION FORCE – MATALLIC INSERTS AND INSOLES (TYPE PL)	X			
26	ANTISTATIC FOOTWEAR	X			
27	ENERGY ABSORPTION OF THE SEAT REGION	X			
28	WATER PENETRATION AND ABSORPTION	X			
29	RESISTANCE OF FUEL OIL	X			

Remarks:

1. The sample was conditioned and tested in environmental conditions Temperature 23±2°C and Relative Humidity 50±5%.
2. Statement of conformity is based on simple acceptance criteria without taking measurement uncertainty into account unless otherwise requested in writing.
3. Test specification for the testing has been provided by the applicant.
4. The Result relates only to the sample tested.

For and on behalf of
METS Laboratories India Pvt. Ltd.

Muktesh Pal
Lab Head- METS INDIA
Authorized Signatory

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RESULTS

S.NO.	TEST NAME	TEST METHOD	SIZE:35	SIZE:42	SIZE:49	REQUIREMENT
1	**DESIGN: HEIGHT OF UPPER**	(BS EN ISO 20345:2022 +A1:2024 CLAUSE 5.2.2)	**DESIGN C** 210 MM	**DESIGN C** 238 MM	**DESIGN C** 257 MM	DESIGN B SIZE 36 AND BELOW ≥162 MM SIZE 41 AND 42: ≥ 178 MM SIZE 45 AND ABOVE: ≥ 192 MM
2	**HEEL AREA**	(BS EN ISO 20345:2022 +A1:2024 CLAUSE 5.2.3)	**DESIGN C** THE HEEL AREA IS CLOSED.	**DESIGN C** THE HEEL AREA IS CLOSED.	**DESIGN C** THE HEEL AREA IS CLOSED.	THE HEEL AREA SHALL BE CLOSED
3	**CONSTRUCTION**	(BS EN ISO 20345:2022 +A1:2024 CLAUSE 5.3.1.1)	**DESIGN C** REQUIREMENT MEET	**DESIGN C** REQUIREMENT MEET	**DESIGN C** REQUIREMENT MEET	INSOLE SHALL BE PRESENT IN SUCH A WAY THAT IT CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR.
4	**UPPER/ OUTSOLE BOND STRENGTH**	(BS EN ISO 20345:2022 +A1:2024 CLAUSE 5.3.1.2)	4.3* N/mm	4.2* N/mm	4.4* N/mm	3.0* N/mm (Min.)
			REMARK: *= TEARING OF SOLE MATERIAL OBSERVED			
5	**TOE PROTECTION-GENERAL**	(BS EN ISO 20345:2022 +A1:2024 CLAUSE 5.3.2.1)	THE TOECAP CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR	THE TOECAP CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR	THE TOECAP CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR	TOECAPS SHALL BE INCORPORATED IN THE FOOTWEAR IN SUCH A MANNER THAT THEY CANNOT BE REMOVED WITHOUT DAMAGING THE FOOTWEAR.
			VAMP LINING PRESENT	VAMP LINING PRESENT	VAMPLINING PRESENT	FOOTWEAR SHALL HAVE A VAMP LINING OR ELEMENT OF THE UPPER THAT SERVES AS A LINING.
			EDGE COVERING BENEATH TOECAPS 6.3 MM EDGE COVERING OPPOSITE DIRECTION TOECAPS 14.5 MM	EDGE COVERING BENEATH TOECAPS 6.5 MM EDGE COVERING OPPOSITE DIRECTION TOECAPS. 14.5 mm	EDGE COVERING BENEATH TOECAPS6.2 MM EDGE COVERING OPPOSITE DIRECTION TOECAPS. 14.9 mm	THE TOECAPS SHALL HAVE AN EDGE COVERING EXTENDING FROM THE BACK EDGE OF THE TOECAP TO AT LEAST 5 MM BENEATH IT AND AT LEAST 10 MM IN THE OPPOSITE DIRECTION.

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S. No.	TEST NAME	TEST METHOD	SIZE: 35	SIZE: 42	SIZE: 49	REQUIREMENT
			REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET	METALLIC TOECAPS SHALL BE FINISHED SO AS FREE FROM SURFACE MARKS OR DEFECTS AND BURRS AND SHARP EDGE
6	**IMPACT RESISTANCE**	(BS EN ISO 20345:2022+A1: 2024 CLAUSE 5.3.2.6)	**DESIGN C** LEFT-16.5 MM RIGHT-17.0 MM	**DESIGN C** LEFT-16.5 MM RIGHT-16.0 MM	**DESIGN C** LEFT-16.5 MM RIGHT-16.0 MM	**MINIMUM CLEARANCE** SIZE 36 AND BELOW 12.5 MM SIZE 41 AND 42: 14.0 MM SIZE 45 AND ABOVE:15.0 MM
7	**COMPRESSION RESISTANCE**	(BS EN ISO 20345:2022+A1:2 024 CLAUSE 5.3.2.7)	**DESIGN C** LEFT-15.5 MM RIGHT-14.5 MM	**DESIGN C** LEFT-16.0 MM RIGHT-15.5 MM	**DESIGN C** LEFT-16.5 MM RIGHT-17.0 MM	**MINIMUM CLEARANCE** SIZE 36 AND BELOW 12.5 MM SIZE 41 AND 42: 14.0 MM SIZE 45 AND ABOVE:15.0 MM
8	**ERGONOMIC FEATURES**	(BS EN ISO 20345:2022+A1:2 024 CLAUSE 5.3.4)	**DESIGN C** YES	**DESIGN C** YES	**DESIGN C** YES	ALL ANSWERS TO THE QUESTIONNAI RE SHALL BE POSITIVE
	REMARK: YES = ALL THE ANSWERS ARE POSITIVE IN THE QUESTIONNAIRE AS BELOW: QUESTION 1: IS THE INSIDE SURFACE OF THE FOOTWEAR FREE FROM ROUGH, SHARP, OR HARD AREAS THAT CAUSED YOU IRRITATION OR INJURY? QUESTION 2: IS FOOTWEAR FREE OF FEATURES THAT CONSIDER TO MAKE WEARING THE FOOTWEAR HAZARDOUS? QUESTION 3: CAN THE FASTENING BE ADEQUATELY ADJUSTED (IT NECESSARY)? QUESTION 4: CAN THE FOLLOWING ACTIVITIES BE PERFORMED WITHOUT PROBLEMS: 4.1. WALKING, 4.2. CLIMBING STAIRS, 4.3. KNEELING/CRUNCHING DOWN.					

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S. NO.	TEST NAME	TEST METHOD	SIZE:35	SIZE:42	SIZE:49	REQUIREMENT
9	**UPPER – GENERAL**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.4.1.1)	**DESIGN C** Meet the Requirement	**DESIGN C** Meet the Requirement	**DESIGN C** Meet the Requirement	DESIGN C MINIMUM HEIGHT SIZE 36 AND BELOW: Min. 113 MM SIZE 41 AND 42: Min 123 MM SIZE 45 AND ABOVE: Min 123 MM
10	**TEAR STRENGTH-UPPER**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.4.3)	178 N	165 N	169 N	UPPER MATERIAL FOR LEATHER MINIMUM FORCE 120 N
11	**WATER VAPOUR PERMEABILITY UPPER LEATHER**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.4.6)	1.7 mg/(cm2·h)	1.9 mg/(cm2·h)	1.8 mg/(cm2·h)	≥ 0.8 mg/(cm2·h)
	WATER VAPOUR COEFFICIENT UPPER LEATHER		18.8 mg/cm2	20.1 mg/cm2	19.6 mg/cm2	≥ 15 mg/cm2
12	**PH VALUE- UPPER LEATHER**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.3.6)	**UPPER LEATHER** SAMPLE 1: 5.45 SAMPLE 2: 5.43			MIN. 3.20, IF BELOW 4.00, MAX. DIFFERENCE 0.70
13	**CHROMIUM VI-UPPER LEATHER**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.3.6)	**UPPER LEATHER** SAMPLE 1: ND SAMPLE 2: ND			< 3.0 mg/kg
14	**TEAR STRENGTH-QUARTER LINING/ TONGUE LINING/COLLAR**	BS EN ISO 20345:2022+A1:2024 CLAUSE 5.5.2/5.6.2)	71 N	75 N	72 N	**QUARTER LINING** For Leather Material: 30 N **TONGUE** For Leather Material: 36 N
15	**ABRASION RESISTANCE – QUARTER LINING/COLLAR**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.5.3)	DRY: NO HOLE WET: NO HOLE	DRY: NO HOLE WET: NO HOLE	DRY: NO HOLE WET: NO HOLE	DRY: THE LINING SHALL NOT DEVELOP ANY HOLES BEFORE 25,600 CYCLES. WET: THE LINING SHALL NOT DEVELOP ANY HOLES BEFORE 12,800 CYCLES.
16	**WATER VAPOUR PERMEABILITY-QUARTER LINING/ COLLAR**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.5.4)	1.8 mg/(cm2·h)	1.9 mg/(cm2·h)	1.8 mg/(cm2·h)	≥ 2.0 mg/(cm2·h)
	WATER VAPOUR COEFFICIENT – QUARTER LINING/COLLAR		20.7 mg/cm2	21.5 mg/cm2	20.6 mg/cm2	≥ 20 mg/cm2

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17	**PH VALUE- QUARTER LINING/ TONGUE/COLLAR**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.3.6)	**QUARTER LINING** SAMPLE 1: 5.22 SAMPLE 2: 5.19			MIN. 3.20, IF BELOW 4.00, MAX. DIFFERENCE 0.70
18	**CHROMIUM VI- QUARTER LINING QUARTER LINING/ TONGUE/COLLAR**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 5.3.6)	**QUARTER LINING** SAMPLE 1: ND SAMPLE 2: ND			< 3.0 mg/kg
19	**DETERMINATION OF PERFORATION FORCE – MATALLIC INSERTS AND INSOLES (TYPE PL)**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 6.2.1.1.3)	LEFT: 1386 N RIGHT: 1345 N	LEFT: 1378 N RIGHT: 1312 N	LEFT: 1406 N RIGHT: 1388 N	THE LOWEST VALUE REQUIRED TO PERFORATE THE OUTSOLE UNIT SHALL BE NOT LESS THAN 1100 N.
20	**ANTISTATIC- FOOTWEAR**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 6.2.2.2)	LEFT: DRY: 618 MΩ RIGHT: WET: 88 MΩ	RIGHT: DRY: 638 MΩ LEFT: WET: 69 MΩ	LEFT: DRY: 588 MΩ RIGHT: WET: 76 MΩ	100 KΩ-1000 MΩ
21	**ENERGY ABSORPTION OF SEAT REGION**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 6.2.4)	LEFT: 32 J RIGHT: 31 J	LEFT: 36 J RIGHT: 34 J	LEFT: 34 J RIGHT: 32 J	20 J (Min.)
22	**WATER PENETRATION - UPPER LEATHER**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 6.3)	6.4%	6.1%	5.8%	30% (Max.)
	WATER ABSORPTION - UPPER LEATHER		0.08 g	0.05 g	0.07 g	0.2 g (Max.)
	REMARK: NO NON-FUCTIONAL & DECORATIVE STITCHINGS OBSERVED					
23	**RESISTANCE OF FUEL OIL**	(BS EN ISO 20345:2022+A1:2024 CLAUSE 6.4.2)	3.5%	3.2%	3.6%	SHALL BE NOT GREATER THAN 12%

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24. AZO-DYES TEST			
LEATHER METHOD: ISO 17234-1:2015			
TEXTILE METHDO: EN 14362-1:2017			
P-AMINOAZOBENZENE-§ 64 LFGB B82.09/4 AAB)			
BLACK UPPER LEATHER / BLACK TONGUE/ COLLAR/QUARTER LINING- LEATHER METHOD			
AMINES	CAS-NO		Requirement
4-AMINOBIPHENYL	92-67-1	ND	30 ppm
BENZIDINE	92-87-5	ND	
4-CHLORO-O-TOLUIDINE	95-69-2	ND	
2-NAPHTHYLAMINE	91-59-8	ND	
O-AMINOAZOTOLUENE	97-56-3	ND	
2-AMINO-4-NITROTOLUENE	99-55-8	ND	
P-CHLOROANILINE	106-47-8	ND	
2,4-DIAMINOANISOLE	615-05-4	ND	
4,4'-DIAMINODIPHENYLMETHANE	101-77-9	ND	
3,3'-DICHLOROBENZIDINE	91-94-1	ND	
3,3'-DIMETHOXYBENZIDINE	119-90-4	ND	
3,3'-DIMETHYLBENZIDINE	119-93-7	ND	
3,3'-DIMETHYL-4,4' DIAMINOBIPHENYLMETHANE	838-88-0	ND	
S	120-71-8	ND	
4,4'-Methylene-bis-(2- chloroaniline)	101-14-4	ND	
4,4'-OXYDIANILINE	101-80-4	ND	
4,4'-THIODIANILINE	139-65-1	ND	
O-TOLUIDINE	95-53-4	ND	
2,4-Toluenediamine	95-80-7	ND	
2,4,5-TRIMETHYLANILINE	137-17-7	ND	
2-METHOXYANILINE	90-04-0	ND	
P-AMINOAZOBENZENE	60-09-3	ND	
2,6 XYLIDIN	87-62-7	ND	
2,4-Xylidine	95-68-1	ND	
REMARK:			
SUMMARY : PRESENCE OF CARCINOGENIC AMINES		ND	
ND = NOT DETECTED, DETECTION LIMIT = 5 ppm			

--------END OF TEST REPORT-------