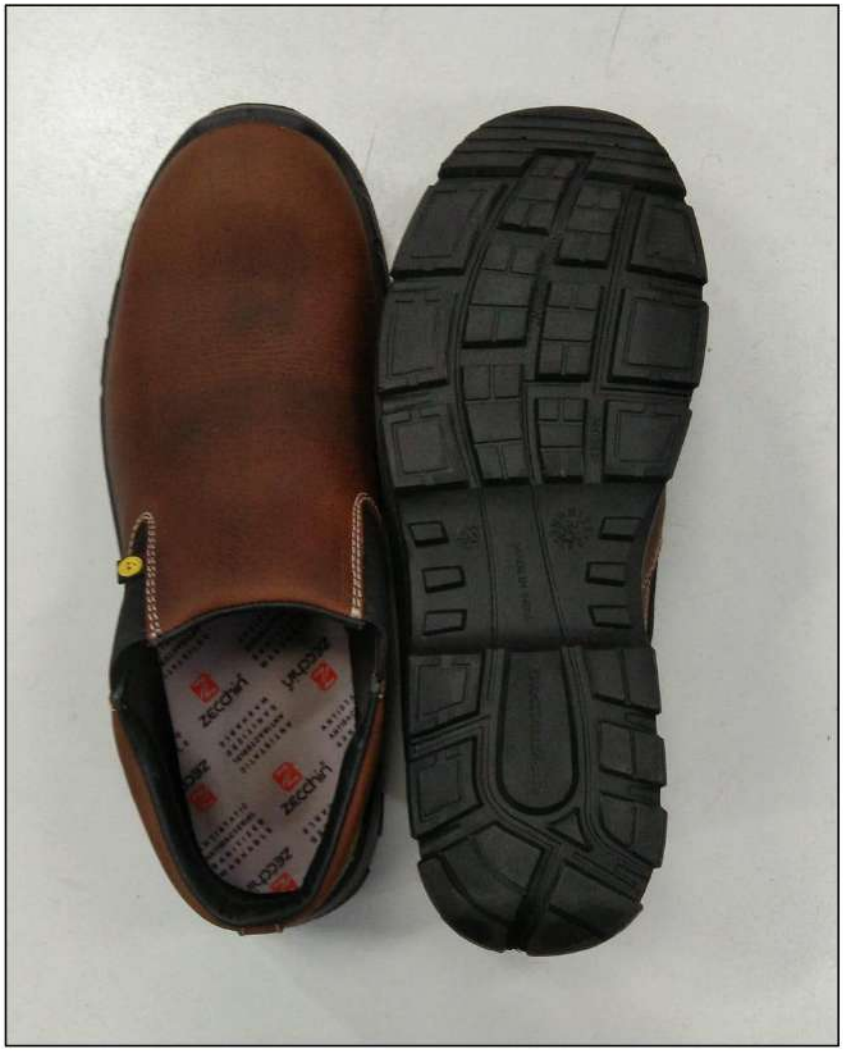
(Formerly known as Geo Chem Laboratories Pvt Ltd.)

REPORT NO.: CPSGGFO2404745 **DATED: 09 APR 2024**

TEST REPORT

ORIGINAL PHOTO OF THE SUBMITTED SAMPLE



OVERALL STATUS	
PASS	X
FAIL	
DATA	

APPLICANT	:	**SG EXPORTS**
CONTACT PERSON	:	MR. MOHMMAD IMRAN
ADDRESS	:	D1, D-6. D-195, D-196, D-197, D-198, D-232 & D-233 EPIP SITE-V KASNA GREATER NOIDA – 201306 (U.P)

SAMPLE NOT DRAWN BY COTECNA INSPECTION INDIA PVT LTD

SAMPLE DESCRIPTION	:	THE SUBMITTED SAMPLE IS 09 PAIR SAFETY FOOTWEAR.
ARTICLE NO.	:	DESIGN-A: ZEE-OMEGA
COLOR	:	BROWN
SIZE RANGE	:	35-49
CATEGORY	:	S3L ESD HI CI SR , EN ISO 20345:2022
BRAND	:	ZECCHIN
MODEL	:	OMEGA
LAST	:	443
MOULD	:	VOO1
TOECAP	:	200 J -COMPOSITE TOE
UPPER	:	LEATHER (1.8-2.0 MM)
VAMP LINING	:	NON WOVEN -270 GSM
QUARTER LINING	:	GOAT LEATHER LINING (1.1 MM)
SEAT REGION LINING	:	NON WOVEN 300 GSM-BLACK
INSOLE	:	KEVLAR
INSOCK	:	PU SOCKS FABRIC LAMINATED
OUTSOLE	:	PU-DOUBLE DENSITY
PENETRATION INSERT	:	KEVLAR
END USE	:	SAFETY FOOTWEAR
SAMPLE RECEIVED DATE	:	31 JAN 2024
TESTING PERIOD	:	31 JAN 2024 TO 09 APRIL 2024

S. NO.	TEST CONDUCTED	PASS	FAIL	DATA	COMMENT
1.	DESIGN: HEIGHT OF UPPER	X			
2.	HEEL AREA	X			
3.	CONSTRUCTION	X			
4.	UPPER/ OUTSOLE BOND STRENGTH	X			
5.	ERGONOMIC FEATURES	X			
6.	UPPER - GENERAL	X			
7.	TEAR STRENGTH - UPPER LEATHER	X			
8.	WATER VAPOUR PERMEABILITY AND COEFFICIENT - UPPER LEATHER	X			
9.	PH VALUE – UPPER / TONGUE/ COLLAR LEATHER	X			
10.	CHROMIUM VI- UPPER / TONGUE/ COLLAR LEATHER	X			
11.	TEAR STRENGTH – VAMP LINING	X			
12.	ABRASION RESISTANCE – VAMP LINING	X			
13.	WATER VAPOUR PERMEABILITY AND COEFFICIENT - VAMP LINING	X			
14.	TEAR STRENGTH – QUARTER LINING	X			
15.	ABRASION RESISTANCE – QUARTER LINING	X			
16.	WATER VAPOUR PERMEABILITY AND COEFFICIENT - QUARTER LINING	X			
17.	ABRASION RESISTANCE – COLLAR LEATHER	X			
18.	COLD INSULATION OF OUTSOLE COMPLEX	X			
19.	HEAT INSULATION OF OUTSOLE COMPLEX	X			
20.	WATER PENETRATION & ABSORPTION - UPPER LEATHER	X			
21.	RESISTANCE TO FUEL OIL - OUTSOLE	X			
22.	AZO DYES	X			

Remark- (1) The sample was conditioned and tested in environmental conditions Temperature 23±2°C and Relative Humidity 50±2%.
(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
Cotecna Inspection India Pvt Ltd

A. Sharma.

Anirudh Sharma
AGM: Leather , Footwear & PPE)
Authorized Signatory

For and on behalf of
Cotecna Inspection India Pvt Ltd

Dr. Shobhit Shrivastav
Lab Manager (Chemical & Analytical)
Authorized Signatory

Test result is drawn according to the kind and extent tests performed.
Without permission of the tests centre, this report is not permitted to be duplicated in extracts. This report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted sample only.

RESULTS

S.NO.	TEST NAME	TEST METHOD	SIZE:35	SIZE:42	SIZE:49	REQUIREMENT
1	**DESIGN: HEIGHT OF UPPER**	(BS EN ISO 20345:2022 CLAUSE 5.2.2)	**DESIGN A** 66 MM	**DESIGN A** 84 MM	**DESIGN A** 91 MM	**DESIGN A** **SIZE 36 AND Below** <103 MM **SIZE 41 AND 42:** <113 MM **SIZE 45 AND ABOVE:** <121 MM
2	**HEEL AREA**	(BS EN ISO 20345:2022 CLAUSE 5.2.3)	REQUIREMENT MEET	REQUIREMENT MEET	REQUIREMENT MEET	THE HEEL AREA SHALL BE CLOSED
3	**CONSTRUCTION**	(BS EN ISO 20345:2022 CLAUSE 5.3.1.1)	REQUIREMENT MEET	REQUIREMENT MEET	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 CLAUSE 5.3.1.2)	4.1* N/mm	4.4* N/mm	4.3* N/mm	3.0* N/mm (Min.)
			REMARK: *= TEARING OF SOLE MATERIAL OBSERVED			
5	**ERGONOMIC FEATURES**	(BS EN ISO 20345:2022 CLAUSE 5.3.4)	**DESIGN A** YES	**DESIGN A** YES	**DESIGN A** YES	ALL ANSWERS TO THE QUESTIONNAIRE 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 THE FOOTWEAR FREE OF FEATURES THAT CONSIDER T 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.					
6	**UPPER - GENERAL**	(BS EN ISO 20345:2022 CLAUSE 5.4.1.1)	>113 MM	>123 MM	>131 MM	**DESIGN A** MINIMUM HEIGHT SIZE 36 AND BELOW 113 MM SIZE 41 AND 42: 123 MM SIZE 45 AND ABOVE: 131 MM
7	**TEAR STRENGTH UPPER / TONGUE/ COLLAR LEATHER**	(BS EN ISO 20345:2022 CLAUSE 5.4.3/5.5.2/5.6.2)	290 N	302 N	306 N	**UPPER MATERIAL FOR LEATHER MINIMUM FORCE** 120 N (Min.) **FOR COLLAR LEATHER:** 30 N (Min.) **FOR TONGUE LEATHER:** 36 N (Min.)
8	**WATER VAPOUR PERMEABILITY UPPER LEATHER**	(BS EN ISO 20345:2022 CLAUSE 5.4.6)	1.5 mg/(cm²·h)	1.4 mg/(cm²·h)	1.5 mg/(cm²·h)	≥ 0.8 mg/(cm²·h)
	WATER VAPOUR COEFFICIENT UPPER LEATHER		17.2 mg/cm²	16.6 mg/cm²	17.3 mg/cm²	≥ 15 mg/cm²
9	**PH VALUE – UPPER/ TONGUE/ COLLAR LEATHER**	(BS EN ISO 20345:2022 CLAUSE 5.3.6)	**UPPER / TONGUE/COLLAR LEATHER** **SAMPLE 1**: 5.55 **SAMPLE 2**: 5.54			MIN. 3.20, IF BELOW 4.00, MAX. DIFFERENCE 0.70

S.NO.	TEST NAME	TEST METHOD	SIZE:35	SIZE:42	SIZE:49	REQUIREMENT
10	**CHROMIUM VI- UPPER/ TONGUE/ COLLAR LEATHER**	(BS EN ISO 20345:2022 CLAUSE 5.3.6)	**UPPER / TONGUE/COLLAR LEATHER** **SAMPLE 1**: ND **SAMPLE 2**: ND Remark: ND= Not Detected, Detection limit = 1 mg/kg			< 3.0 mg/kg
11	**TEAR STRENGTH - VAMP LINING**	(BS EN ISO 20345:2022 CLAUSE 5.5.2)	30.4 N	32.2 N	31.7 N	MINIMUM FORCE: 15 N FOR COATED FABRIC AND TEXTILES
12	**ABRASION RESISTANCE – VAMP LINING**	(BS EN ISO 20345:2022 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.
13	**WATER VAPOUR PERMEABILITY – VAMP LINING**	(BS EN ISO 20345:2022 CLAUSE 5.5.4)	41.2 mg/(cm²·h)	42.2 mg/(cm²·h)	40.8 mg/(cm²·h)	≥ 2.0 mg/(cm²·h)
	WATER VAPOUR COEFFICIENT – VAMP LINING		329.8 mg/cm²	337.8 mg/cm²	326.6 mg/cm²	≥ 20 mg/cm²
14	**TEAR STRENGTH - QUARTER LINING**	(BS EN ISO 20345:2022 CLAUSE 5.5.2)	108.5 N	116.5 N	119.5 N	MINIMUM FORCE: 30 N FOR LEATHER
15	**ABRASION RESISTANCE – QUARTER LINING**	(BS EN ISO 20345:2022 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**	(BS EN ISO 20345:2022 CLAUSE 5.5.4)	2.2 mg/(cm²·h)	23.0 mg/(cm²·h)	23.5 mg/(cm²·h)	≥ 2.0 mg/(cm²·h)
	WATER VAPOUR COEFFICIENT – QUARTER LINING		176.2 mg/cm²	184 mg/cm²	188 mg/cm²	≥ 20 mg/cm²
17	**ABRASION RESISTANCE – COLLAR LEATHER**	(BS EN ISO 20345:2022 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.

S.NO.	TEST NAME	TEST METHOD	SIZE:35	SIZE:42	SIZE:49	REQUIREMENT
18	**COLD INSULATION OF OUTSOLE COMPLEX**	(BS EN ISO 20345:2022 CLAUSE 6.2.3.2)	5.5 °C	6.5 °C	6.5 °C	THE DECREASE TEMPERATURE SHALL NOT BE MORE THAN 10 °C
19	**HEAT INSULATION OF OUTSOLE COMPLEX**	(BS EN ISO 20345:2022 CLAUSE 6.2.3.1)	17.0 °C	16.0 °C	16.5 °C	≤ 22 °C
20	**WATER PENETRATION - UPPER LEATHER**	(BS EN ISO 20345:2022 CLAUSE 6.3)	7.6%	8.2%	7.9%	30% (Max.)
	WATER ABSORPTION - UPPER LEATHER		0.02 g	0.03 g	0.02 g	0.2 g (Max.)
21	**RESISTANCE TO FUEL OIL - OUTSOLE**	(BS EN ISO 20345:2022 CLAUSE 6.4.2)	1.2%	1.4%	1.4%	12 % (Max.)

22. AZO-DYES TEST			
LEATHER METHOD: ISO 17234-1:2015			
TEXTILE METHDO: EN 14362-1:2017			
p-AMINOAZOBENZENE-§ 64 LFGB B82.09/4 AAB)			
BROWN UPPER/COLLAR/TONGUE LEATHER+ BLACK QUARTER LINING LEATHER- 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	
p-Cresidine	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			

BLACK ELASTIC– TEXTILE 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	
p-Cresidine	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 THE TEST REPORT

FDDI

INTERNATIONAL TESTING CENTRE

TEST CERTIFICATE

Customer Name : **SG Exports.** **Test report No. : 2K2405057**
Contact person : **Mr. Mohd. Imran** **Date of Entry : 04.05.2024**
Address : **D – 1,D-195-198, D-232& 233, EPIP SITE- V, Kasna, Greater Noida.**
Sample description: Safety Shoes **Page : 1/1**
Details : **Article : Zee , Brand: Zecchin, Model : Omega, Colour : Brown**
Testing period : **07.05.2024 to 13.05.2024** **Reporting date : 14.05.2024**

Laboratory Environment
Temperature 23 +/-2°C
Relative Humidity 50+/-5%

Test For Electrostatic Dissipative (ESD) (Based on EN 61340-4-3)

(Sample was preconditioned at 40°C & 12 % RH for 72 hrs & Conditioned at 23°C & 12 % RH for 72 hrs)

Value	27.5 M Ohm
Requirement	100 k Ohm to 100 M Ohm

Rajesh Mishra
(Senior Technologist)
Authorized signatory

Shailendra Saxena
(Head -Physical Laboratory)
Authorized signatory

*** END OF TEST REPORT ***

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