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CNAS L0220

TEST REPORT

Number: GZHT91210148

Applicant: QUANZHOU BESPOKE RECORD IMP&EXP.CO.,LTD
3F BOYA BLDG,NANPU INDUSTRY PARK,
FENGZE DISTRICT,QUANZHOU,FUJIAN,CHINA.
Attn: OWEN ZHU

Date: Sep 05, 2023

Sample Description:

Four (4) groups of submitted samples said to be:
(A) Six (6) pairs of Cemented occupational shoes in Black
(B) Five (5) pieces of Combinations of Black cow leather upper materials + mesh lining materials
(C) Two (2) pieces of Black pig leather tongue lining materials
(D) Two (2) pieces of Black mesh vamp/quarter Lining materials.

| | | |
|---|---|---|
| Standard | : | BS EN 13634:2017 |
| Size | : | UK 6, 8, 11 |
| Ref. No. | : | F-1 |
| Ref. | : | MOTOBOOTS Black |
| Insert Plate | : | NA |
| Toe Cap | : | NA |
| Sole | : | Rubber |
| Upper | : | Black cow leather with holes |
| Vamp Lining | : | Black mesh |
| Quarter Lining | : | Black mesh |
| Counter Lining | : | Black microfiber |
| Tongue | : | Black cow leather same as upper |
| Collar | : | Black cow leather same as upper |
| Tongue Lining | : | Black pig leather |
| Collar Lining | : | Black pig leather |
| Insole | : | Environmental chemical fiber |
| Insock | : | Black anti-bacterial microfiber EVA + Black mesh |
| Previous Report Number | : | -- |
| Date Received/Date Test Started: | | Aug 23, 2023 |
| Date Final Information Confirmed/ Date Payment Received: | | Sep 05, 2023 |

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

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wq / lynnyang

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Tests Conducted (As Requested By The Applicant)

1 Tear Strength (Lining) (BS EN 13634:2017, 4.5.2, EN ISO 20345:2011, 5.5.1 & EN ISO 20344:2011, 6.3)

| Sample | Size | Result (Vamp Lining/Quarter Lining) | | Requirement | Pass/Fail |
|---|---|---|---|---|---|
| (A) | 11 | Middle Value | 34.9 N | Min. 15 N | Pass |

| Sample | Size | Result (Counter Lining) | | Requirement | Pass/Fail |
|---|---|---|---|---|---|
| (A) | 11 | Middle Value | 22.0 N | Min. 15 N | Pass |

| Sample | Size | Result (Tongue Lining/Collar Lining) | | Requirement | Pass/Fail |
|---|---|---|---|---|---|
| (A) | 11 | Mean Value | 33.2 N | Min. 30 N | Pass |

Expanded Uncertainty: 2.77 N, With k= 2.06 At 95% Confidence Level.

2 Abrasion Resistance (Lining) (BS EN 13634:2017, 4.5.3 & EN ISO 20344:2011, 6.12)

| Sample | Size | Results (Vamp Lining/Quarter Lining) | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 11 | Wearing Surface Did Not Develop Any Holes Before 25,600 Cycles Dry;<br>Wearing Surface Did Not Develop Any Holes Before 12,800 Cycles Wet. | * | Pass |

| Sample | Size | Results (Counter Lining) | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 11 | Wearing Surface Did Not Develop Any Holes Before 25,600 Cycles Dry;<br>Wearing Surface Did Not Develop Any Holes Before 12,800 Cycles Wet. | * | Pass |

| Sample | Size | Results (Collar Lining/Tongue Lining) | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 11 | Wearing Surface Did Not Develop Any Holes Before 25,600 Cycles Dry;<br>Wearing Surface Did Not Develop Any Holes Before 12,800 Cycles Wet. | * | Pass |

Remark: * = Wearing Surface Shall Not Develop Any Holes Before 25,600 Cycles Dry;
Wearing Surface Shall Not Develop Any Holes Before 12,800 Cycles Wet.



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3 Colour Fastness To Water (BS EN 13634:2017, 4.5.6 & EN ISO 11642:2012)

Test Condition:
Oven Temperature: (37±2) ℃
Duration: (180±10) min

| Sample | Colour Staining (Vamp Lining/Quarter Lining) | | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | Acetate | Grade 4-5 | Min. Grade 3 | Pass |
| | Cotton | Grade 4-5 | | |
| | Nylon | Grade 4-5 | | |
| | Polyester | Grade 4-5 | | |
| | Acrylic | Grade 4-5 | | |
| | Wool | Grade 4-5 | | |

| Sample | Colour Staining (Counter Lining) | | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | Acetate | Grade 4-5 | Min. Grade 3 | Pass |
| | Cotton | Grade 4-5 | | |
| | Nylon | Grade 4-5 | | |
| | Polyester | Grade 4-5 | | |
| | Acrylic | Grade 4-5 | | |
| | Wool | Grade 4-5 | | |

| Sample | Colour Staining (Tongue Lining/Collar Lining) | | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | Acetate | Grade 4-5 | Min. Grade 3 | Pass |
| | Cotton | Grade 4-5 | | |
| | Nylon | Grade 4-5 | | |
| | Polyester | Grade 4-5 | | |
| | Acrylic | Grade 4-5 | | |
| | Wool | Grade 4-5 | | |


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4 Thickness Of Insole(BS EN 13634:2017, 4.10.1, Table 7, EN ISO 20345:2011, 5.7.1 & EN ISO 20344:2011, 7.1)

| Sample | Size | Results | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 6 | 6.0 mm | Min. 2.0 mm | Pass |
| | 8 | 6.0 mm | Min. 2.0 mm | Pass |
| | 11 | 6.0 mm | Min. 2.0 mm | Pass |

Expanded Uncertainty: 0.07 mm, With k= 1.96 At 95% Confidence Level.

5 Abrasion Resistance (Insoles) (BS EN 13634:2017, 4.10.2.1 & EN ISO 20344:2011, 7.3)

| Sample | Size | Results | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 6 | No Worse Than The Damage Exhibited By The Reference Test Piece After 400 Cycles | * | Pass |
| | 8 | No Worse Than The Damage Exhibited By The Reference Test Piece After 400 Cycles | * | Pass |
| | 11 | No Worse Than The Damage Exhibited By The Reference Test Piece After 400 Cycles | * | Pass |

Remark: * = The Abrasion Damaged Shall Be Not Worse Than That Exhibited By The Reference Test Piece From The Same Family Of Materials After 400 Cycles.

6 Abrasion Resistance (Insocks) (BS EN 13634:2017, 4.10.2.2 & EN ISO 20344:2011, 6.12)

| Sample | Size | Results | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 11 | Wearing Surface Did Not Develop Any Holes Before 25,600 Cycles Dry;<br>Wearing Surface Did Not Develop Any Holes Before 12,800 Cycles Wet. | * | Pass |

Remark: * = Wearing Surface Shall Not Develop Any Holes Before 25,600 Cycles Dry;
Wearing Surface Shall Not Develop Any Holes Before 12,800 Cycles Wet.


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7 Thickness And Cleat Height (Outsoles) (BS EN 13634:2017, 4.6.1 & EN ISO 20344:2011, 8.1.2)

| Sample | Size | Results (Thickness Of Outsole) | | Requirement | Pass/Fail |
|---|---|---|---|---|---|
| | | Type Of Outsole | $d_1$ | | |
| (A) | 6 | Non-cleated | 10.0 mm | Min. 4 mm | Pass |
| | 8 | Non-cleated | 10.0 mm | Min. 4 mm | Pass |
| | 11 | Non-cleated | 10.0 mm | Min. 4 mm | Pass |

| Sample | Size | Results (Cleat Height $d_2$) | Type Of Outsole |
|---|---|---|---|
| (A) | 6 | 2.0 mm | Non-cleated |
| | 8 | 2.0 mm | |
| | 11 | 2.0 mm | |

| Sample | Size | Results (Cleated Area) | Requirement | Pass/Fail |
|---|---|---|---|---|
| (A) | 6 | Not Applicable | * | - |
| | 8 | Not Applicable | * | - |
| | 11 | Not Applicable | * | - |

Remark: * = Specified Area Shall Have Cleats, Which Are Open To The Side.
Front Cleats Area: Min. 0.45 L; Heel Cleats Area: Min. 0.25 L.

Expanded Uncertainty: 0.07 mm, With k= 1.96 At 95% Confidence Level.

8 Abrasion Resistance (Outsoles) (BS EN 13634:2017, 4.6.2 & ISO 4649:2017, Method A, Vertical Force: 10 N, Abrasion Distance: 40 m)

| Sample | Size | Density | Results | Requirement | Pass/Fail |
|---|---|---|---|---|---|
| (A) | 6 | 1.13 g/cm$^3$ | 118.4 mm$^3$ | * | Pass |
| | 8 | 1.12 g/cm$^3$ | 126.6 mm$^3$ | * | Pass |
| | 11 | 1.13 g/cm$^3$ | 124.1 mm$^3$ | * | Pass |

Remark: * = Density: > 0.9 g/cm$^3$, Max. 150 mm$^3$

Expanded Uncertainty: 1.76 mm$^3$, With k= 1.96 At 95% Confidence Level.



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Tests Conducted (As Requested By The Applicant)

9 Innocuousness (pH Value) (EN ISO 20344:2021, 6.9, With Reference To ISO 4045:2018, pH Value Was Measured By pH Meter)

| Tested Component | Result | Difference Figure | Requirement |
|---|---|---|---|
| (3) | 3.70 | 0.65 | * |

Remark: * = Min. 3.2, If The pH Value Is Below 4.0, The Difference Figure Shall Be Less Than 0.7

Tested Component: Please See Component List In The Last Section Of This Report

Conclusion:

| Standard | Result |
|---|---|
| EN ISO 20345:2022 For pH Value | Pass |

10 Innocuousness (Chromium (VI) Content)

EN ISO 20344:2021, 6.11, With Reference To ISO 17075-1:2017, The Hexavalent Chromium Content Was Determined By UV-Visible Spectrophotometry.

| Tested Component | Result In mg/kg | Requirement |
|---|---|---|
| (3) | ND | Max. 3.0 mg/kg |

Remark: Detection Limit = 3 mg/kg
ND = Not Detected

Tested Component: Please See Component List In The Last Section Of This Report

Conclusion:

| Standard | Result |
|---|---|
| EN ISO 20345:2022 For Chromium (VI) Content | Pass |


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Tests Conducted (As Requested By The Applicant)

11 Detection Of Amines Derived From Azocolourants and Azodyes

With Reference To Test Method: Textile Method (EN ISO 14362-1:2017)
Leather Method (EN ISO 17234-1:2015)
P-Aminoazobenzene (EN ISO 17234-2:2011)

Amines Content Was Determined By Gas Chromatography-Mass Spectrometry (GC-MS)

| | Forbidden Amine | CAS No. | Results (mg/kg) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Method T | | | Method D | | Method L |
| | | | (1) | (2) | (4) | (1) | (4) | (3) |
| 1. | 4-Aminodiphenyl | 92-67-1 | ND | ND | ND | ND | ND | ND |
| 2. | Benzidine | 92-87-5 | ND | ND | ND | ND | ND | ND |
| 3. | 4-Chloro-o-toluidine | 95-69-2 | ND | ND | ND | ND | ND | ND |
| 4. | 2-Naphthylamine | 91-59-8 | ND | ND | ND | ND | ND | ND |
| 5. | o-Aminoazotoluene | 97-56-3 | ND | ND | ND | ND | ND | ND |
| 6. | 2-Amino-4-nitrotoluene | 99-55-8 | ND | ND | ND | ND | ND | ND |
| 7. | p-Chloroaniline | 106-47-8 | ND | ND | ND | ND | ND | ND |
| 8. | 2,4-Diaminoanisole | 615-05-4 | ND | ND | ND | ND | ND | ND |
| 9. | 4,4'-Diaminodiphenylmethane | 101-77-9 | ND | ND | ND | ND | ND | ND |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | ND | ND | ND | ND | ND | ND |
| 11. | 3,3'-Dimethoxybenzidine | 119-90-4 | ND | ND | ND | ND | ND | ND |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | ND | ND | ND | ND | ND | ND |
| 13. | 3,3'-Dimethyl-4,4'diaminodiphenylmethane | 838-88-0 | ND | ND | ND | ND | ND | ND |
| 14. | p-Cresidine | 120-71-8 | ND | ND | ND | ND | ND | ND |
| 15. | 4,4'-Methylene-bis(2-chloroaniline) | 101-14-4 | ND | ND | ND | ND | ND | ND |
| 16. | 4,4'-Oxydianiline | 101-80-4 | ND | ND | ND | ND | ND | ND |
| 17. | 4,4'-Thiodianiline | 139-65-1 | ND | ND | ND | ND | ND | ND |
| 18. | o-Toluidine | 95-53-4 | ND | ND | ND | ND | ND | ND |
| 19. | 2,4-Toluylenediamine | 95-80-7 | ND | ND | ND | ND | ND | ND |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | ND | ND | ND | ND | ND | ND |
| 21. | o-Anisidine | 90-04-0 | ND | ND | ND | ND | ND | ND |
| 22. | 4-Aminoazobenzene | 60-09-3 | ND | ND | ND | ND | ND | ND |

Remark: ND = Not Detected
Detection Limit = 5 mg/kg
Limit = 30 mg/kg
Method T: Direct Buffer Extraction As Per EN ISO 14362-1:2017 Section 10.2
Method D: Colourant Extraction With Xylene As Per EN ISO 14362-1:2017 Section 10.1
Method L: EN ISO 17234-1:2015

Tested Components: Please See Component List In The Last Section Of This Report

Conclusion:

| Standard | Result |
|---|---|
| REACH Regulation (EC) No.1907/2006 Annex XVII Item 43 and its Amendments No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC) | Pass |



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12 Pentachlorophenol (PCP) Content:

With Reference To ISO 17070:2015, Analysis By Gas Chromatographic-Mass Spectrometric (GC-MS)

| Tested Component | Result In mg/kg | Limit In mg/kg |
|---|---|---|
| (3) | ND | 5 |

Remark: Detection Limit = 0.5 mg/kg
ND = Not Detected

Tested Component: Please See Component List In The Last Section Of This Report

Conclusion:

| Test Item | Result |
|---|---|
| Pentachlorophenol (PCP) Content | Pass |

Component List:
(1) Black Mesh Vamp/Quarter Lining Materials (Sample D)
(2) Black Microfiber Counter Lining Material (Sample A)
(3) Black Pig Leather Tongue Lining Materials (Sample C)
(4) Black Anti-Bacterial Microfiber EVA + Black Mesh Insock Material (Sample A)



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*End Of Report*



*Remark:*
*1. As Requested by the Applicant, For Details Refer to Attached Page (s).*
*2. All the tested item are tested under the standard condition.*
*3. The report is valid with commission test only for the test samples in the case of delivering samples by clients.*



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