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检测
TESTING
CNAS L0220

TEST REPORT

Number: GZHT90758711

Applicant: BATA INDUSTRIALS EUROPE
EUROPAPLEIN 1, 5684 ZC BEST
P.O. BOX 10050 , 5680 DB BEST
THE NETHERLANDS
Attn: JOEY CHAN

Date: Jan 11, 2018

Sample Description:
Two (2) groups of submitted samples said to be:
(A) Three (3) pairs of Injection lace up safety ankle boots in Black, Style: Arena
(B) Two (2) pieces of Black split smooth leather used for Upper.

Standard	:	EN ISO 20345:2011 ASTM F2413-11
Size	:	EUR 42 (US 9)
Toe Cap	:	Steel toecap
Upper	:	Black split smooth leather T 1.8~2.0mm
Outsole	:	Grey PU midsole/Black PU midsole
Insock	:	EVA
Customer P.O. No.	:	PERU: 2017-3449, 2017-3692, 2017-3801, 2017-3800 CHILE: 66649, 66658, 66676, 66681, 66678, 66693, 66696, 66698, 66701 ECUADOR: 2, 3 COLOMBIA: 21029
Date Received/Date Test Started:		Dec. 08, 2017
Date Final Information Confirmed/		Jan. 11, 2018
Date Payment Received:		

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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Tests Conducted (As Requested By The Applicant)

1 Upper/Outsole Bond Strength (Whole Footwear) (EN ISO 20344:2011(5.2))

Sample	Size	Result	Requirement	Pass/Fail
(A)	42	6.3 N/mm	*	Pass

Remark: * = Min. 4.0 N/mm, If The Sole Was Torn, Min. 3.0 N/mm

Expended Uncertainty: 0.10 N/mm, With k= 2 At 95% Confidence Level.

2 Impact Resistance Of Safety Footwear (EN ISO 20344:2011(5.4))

Test Condition:
Mass Of Striker: (20±0.2) kg
Impact Energy: (200±4) J

Sample	Size	Results		Requirement	Pass/Fail
(A)	42	Left	16.0 mm	Min. 14.0 mm (#)	Pass
		Right	18.0 mm	Min. 14.0 mm (#)	Pass

Remark: # = In Addition, The Toecap Shall Not Develop Any Cracks Which Go Through The Material, i.e. Through Which Light Can Be Seen.

Expanded Uncertainty: 0.36(Urel), With k=1.96 At 95% Confidence Level.

3 Compression Resistance Of Safety Footwear (EN ISO 20344:2011(5.5))

Test Condition:
Compression Speed: (5±2) mm/min
Load: (15±0.1) kN

Sample	Size	Results		Requirement	Pass/Fail
(A)	42	Left	20.0 mm	Min. 14.0 mm	Pass
		Right	21.0 mm	Min. 14.0 mm	Pass

Expended Uncertainty: 0.13 mm, With k= 1.96 At 95% Confidence Level.

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Tests Conducted (As Requested By The Applicant)

4 Electric Hazard Resistance Footwear (ASTM F2412-11, 9)

(A)	Leakage Current	ASTM F2413 Requirement	Pass/Fail
Left:	0.25 mA	*	Pass
Right:	0.23 mA	*	Pass
Left:	0.23 mA	*	Pass

Remark: * = No Current Flow Or Leakage Current In Excess Of 1.0 mA Under The Application Of 18 000 V At 60 Hz AC For 1 Minute.

5 Tear Strength (Upper) (EN ISO 20344:2011(6.3), ISO 3377-2:2002)

Sample	Size	Result		Requirement	Pass/Fail
(A)	42	Mean Value	297.2 N	Min. 120 N	Pass

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

6 Tear Strength (Outsole) (EN ISO 20344:2011(8.2), ISO 34-1:2010, Method A)

Sample	Size	Density	Result	Requirement	Pass/Fail
(A)	42	1.1 g/cm^3	11.8 kN/m	*	Pass

Remark: * = Density: > 0.9 g/cm^3, Min. 8 kN/m

Expanded Uncertainty: 0.32 kN/m, With k= 2.26 At 95% Confidence Level.

7 Abrasion Resistance (Outsole) (EN ISO 20344:2011(8.3), ISO 4649:2010, Method A)

Sample	Size	Density	Result	Requirement	Pass/Fail
(A)	42	1.1 g/cm^3	51.6 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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8 Rigidity Test (Outsole) (EN ISO 20344:2011(8.4))

Sample	Size	Result
(A)	42	25°

Conclusion: There's No Need To Be Performed The Flexing Test.

NOTE Footwear Whose Angle Under The Applied Force Is Lower Than 45° From The Horizontal Is Not Subjected To The Flexing Test.

9 Resistance To Fuel Oil (Outsole) (EN ISO 20344:2011(8.6.1), ISO 1817:2011(8.3), EN ISO 868:2003)

Sample	Size	Result (Black PU Compact Layer)	Requirement	Pass/Fail
(A)	42	Change In Volume: +0.54%	Max. +12%(*)	Pass

Remark: * = If The Test Piece Shrinks By More Than 1% In Volume Or Increase In Hardness By More Than 10 Shore A Hardness Units, Then A Further Flex Test Shall Be Performed In Accordance With The Method Described In EN ISO 20344:2011, 8.6.2.
(+) Means Increase And (-) Means Shrinkage.

Expended Uncertainty: 0.16%, With k= 2.13 At 95% Confidence Level.

10 pH Value

As Per EN ISO 20344:2011, 6.9, With Reference To ISO 4045:2008, pH Value Was Measured By pH Meter.

	Result	Difference Figure	Requirement
	4.05	-	*

Remark: * = Min. 3.20, If The pH Value Is Below 4.00, The Difference Figure Shall Be Less Than 0.70

Tested Component: Black Split Leather (Sample B)

Conclusion:

Standard	Result
EN ISO 20345:2011 For pH Value	Pass

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