



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

Testing Laboratory No. 1004

accredited by ČIA according to ČSN EN ISO/IEC 17025:2018



Testing laboratory * Calibration laboratory * Product certification body * Quality management systems certification body
Inspection body * Authorized body * Notified body

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ACCREDITED LABORATORY TEST REPORT ref.No. 412603605-01

Client: BUSHMAN s.r.o.
VAT registration number: CZ25618601

Address: Lazarská 5/1719, 110 00 PRAHA 1 – Nové Město, Czech Republic

Sample: Footwear BUSHMAN, model Cruizer

Sample received on: 28th April 2023

Report elaborated by: Irena Čaňová

Place and date of issue: Zlín, 10th May 2023



Ing. Jiří Samsonek, Ph.D.
Head of Accredited Testing Laboratory

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by Institut pro testování a certifikaci, a.s. Zlín, the Test Report may not be reproduced unless as a whole!*



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Description and identification of samples:

Table No. I. - Sample description and identification

ITC's identification number	Sample identification by the client	Description of submitted sample
412603605-1	Footwear BUSHMAN, model Cruiser	Ankle boot, model 853038 Cruiser, colour Brown, size 43



Figure 1 – Footwear BUSHMAN, model Cruiser, ITC's identification number 412603605-1

Sampling method used:

The test sample was collected and supplied to the laboratory by the client.
The laboratory is not responsible for this way of sampling.

Work requested:

Determination of water resistance and slip resistance of footwear.

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**Testing method used:**

- Determination of water resistance of whole footwear according to ČSN EN ISO 20344/art. 5.19. (update of the standard ČSN EN ISO 20344:2012/art. 5.15.2.)
- Determination of slip resistance according to IZP U-06-01 (ČSN EN ISO 13287/test mode c)

Where internal test procedures (IZP) are specified in the test methods used, the annex to the Accreditation Certificate shall indicate for each internal procedure the links to the standards on which the internal test procedure is based.

Test conditions:

- ad 1.-2. Temperature: (23±2)° C, relative humidity: (50±5) %.
- ad 1. Dynamic test for 80 minutes.
Result: water penetration.
- ad 2. Determination of dynamic coefficient of friction in dry and wet conditions.
Testing surface: Steel floor, consisting of a stainless-steel plate.
Test mode c) – Forward flat slip.
Test consists of 5 measurements for each test condition and for each halfpair of footwear.
Result: arithmetic mean.

The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by the standards and not given in this Test Report are available at a request at the Laboratory.

Testing laboratory:

Tests No. 1 – 2: Workplace No. 1 – Testing Laboratory, třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic.

Test results:

The test results are given in the following tables:

Table No. II. – Footwear BUSHMAN, model Cruiser, ITC's identification number 412603605-1

Characteristics measured	Unit	Test results	Uncertainty ¹⁾	Value required ²⁾	Evaluation ³⁾
Water resistance after 80 min.	water penetration			no water penetration	Pass
- left halfpair		no water penetration	-		
- right halfpair		no water penetration	-		

- expanded uncertainty for coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%
- required by ČSN EN ISO 20347:2023
- in accordance with ILAC-G08 – Binary statement for the simple acceptance rule (the measurement uncertainty is not taken into consideration for the evaluation)

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Table No. III. – Footwear BUSHMAN, model Cruiser, ITC's identification number 412603605-1

Characteristics measured	Unit	Test results	Uncertainty ¹⁾	Value required ²⁾	Evaluation ³⁾
Slip resistance in dry conditions, dynamic coefficient of friction³⁾	-			min. 0,3	Pass
- left halfpair		1,27	0,05		
- right halfpair		1,04	0,01		
Slip resistance in wet conditions, dynamic coefficient of friction³⁾	-			min. 0,3	Pass
- left halfpair		0,69	0,03		
- right halfpair		0,71	0,01		

1) expanded uncertainty for coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%

2) required by ČSN 79 5600

3) non-dimensional unit, physical dimension is 1

4) In accordance with ILAC-G08 – Non-binary statement with protection zone (the measurement uncertainty is taken into consideration for the evaluation)

Evaluation of the test results was carried out by:

Ing. Petra Škabrahová, Ph.D.

Ing. Petra Škabrahová, Ph.D.
Head of testing laboratory of shoes and PPE