

財團法人全國認證基金會 Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No: L1314-250106)

This is to certify that

Footwear and Recreation Technology Research Institute Testing and Inspection Laboratory

No. 11, 8th Rd., Industrial Park, Xitun Dist., Taichung City, Taiwan, ROC

is accredited in respect of laboratory

Accreditation Criteria: ISO/IEC 17025:2017; CNS 17025:2018

Accreditation Number : 1314

Originally Accredited: November 15, 2004

Effective Period: July 06, 2023 to July 05, 2026

Accredited Scope: Testing Field, see described in the Appendix

Specific Accreditation Accreditation Program for Designated Testing Laboratory

Program • for Commodities Inspection

Yi-Ling Chen

President, Taiwan Accreditation Foundation

Yi-Ling Chen

January 06, 2025

Accreditation Number: 1314

Laboratory Head: HU, Ching-Hou

7 01. 99 Metals and Alloys Products

Metal Parts, Metal Coating

C074 Hexavalent Chromium Test

CNS 15331 Sec. 5.5 (2021)

CNS 15050 Appendix B (2010)

Spot Test:

Positive: ≥ 1 mg/kg Negative: < 1 mg/kg Boiling Water Test:

Positive: $\geq 0.02 \text{ mg/kg with } 50 \text{ cm}^2$ Negative: $< 0.02 \text{ mg/kg with } 50 \text{ cm}^2$

Approval Signatory: HU, Ching-Hou

7 06. 03 Polymer and Composite Materials

Leather

Leather for Safety Footwear, Protective Footwear, Occupational Footwear

C074 Hexavalent Chromium Test

CNS 15331 (2021) Appendix A

ISO 17075: 2007

ISO 17075-1: 2017

CNS 20344 (2015) Sec. 6.11

CNS 20345 (2015) Sec. 5.4.9

CNS 20346 (2016) Sec. 5.4.9

CNS 20347 (2016) Sec. 5.4.9

ISO 20344: 2011 Sec. 6.11

ISO 20345: 2011 Sec. 5.4.9

ISO 20346: 2014 Sec. 5.4.9

ISO 20347: 2012 Sec. 5.4.9

(3 to 80) mg/kg

Approval Signatory: HU, Ching-Hou

C091 pH Value Test

CNS 1294 (2011)

ISO 4045: 2018

CNS 20344 (2015) Sec. 6.9

CNS 20345 (2015) Sec. 5.4.7

CNS 20346 (2016) Sec. 5.4.7

CNS 20347 (2016) Sec. 5.4.7

ISO 20344: 2011 Sec. 6.9

ISO 20345: 2011 Sec. 5.4.7

ISO 20346: 2014 Sec. 5.4.7

ISO 20347: 2012 Sec. 5.4.7

pH (3.0 to 10.0)

Approval Signatory: HU, Ching-Hou

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✓ 06. 03 Polymer and Composite Materials
Leather
M002 Tensile Strength
CNS 1278 (2016)
(19.6 to 1765) N
(2 to 180) kgf

Approval Signatory: HU, Ching-Hou

M017 Thickness CNS 1274 (2010) (0.1 to 4.0) mm

Approval Signatory: HU, Ching-Hou

M018 Determination of Tear Load-Single Edge Tear CNS 1279 (2010, 2011/12/15 Errata) ISO 3377-1: 2002 (19.6 to 1765) N (2 to 180) kgf

Approval Signatory: HU, Ching-Hou

7 07. 99 Textiles and Related Products Textile C084 Free Formaldehyde Content CNS 15580-1 (2012) ISO 14184-1: 2011 (12 to 300) mg/kg

Approval Signatory: HU, Ching-Hou

7 07. 99 Textiles and Related Products Resin Finished Woven and Knitted Fabrics C084 Free Formaldehyde Content CNS 12943 (1991) Sec. 5.3.1 (2) (b) Method B CNS 15331 (2018) Sec. 5.3 (12 to 300) mg/kg

Approval Signatory: HU, Ching-Hou

▼ 18. 09 Commodity
Safety Footwear, Protective Footwear
M017 Toe Protection-General
CNS 20345 Sec. 5.3.2.1 (2015)
CNS 20346 Sec. 5.3.2.1 (2016)
ISO 20345 Sec. 5.3.2.1 (2011)
ISO 20346 Sec. 5.3.2.1 (2014)
(0 to 150) mm

Approval Signatory: HU, Ching-Hou

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7 18. 09 Commodity

Safety Footwear, Protective Footwear, Occupational Footwear

M996 Dimensional Conformity of Inserts

Determination of Resistance to Hot Contact

Determination of Abrasion Resistance of Lining and Insock

Determanation of Resistance to Flexing of Rubber Upper

Method for Outsole Materials which Shrink or Become Hardened

Determination of Water Penetration and Water Absorption for Upper

Test Method for Metallic Toecaps and Metallic Inserts in Classification II Footwear

Determination of Resistance to Fuel Oil-General Method

Specific Ergonomics Features

Determination of the Penetration Resistance of Footwear Using a Metallic Anti-penetration Inserts

Determination of the Penetration Resistance of Footwear Using a Non-metallic Antipenetration Inserts

Determination of Flex Resistance of Penetration-resistance Inserts

Determination of Insulation Against Heat

Determination of Energy Absorption of Seat Region

Determination of Resistance to Water for Whole Footwear-Trough Test

Determination of Resistance to Water for Whole Footwear-Dynamic Footwear Water

Penetration Test

Determination of Insole Thickness

Determination of Water Absorption and Desorption of Insole and Insock

Rigidity Test

Determination of insulation of cold

Electrical properties-Conductive footwear

Electrical properties-Antistatic footwear

Determination of Abrasion Resistance of Insole

CNS 20344 (2015)

CNS 20345 (2015)

CNS 20346 (2016)

CNS 20347 (2016)

ISO 20344 (2011)

ISO 20345 (2011)

ISO 20346 (2014)

ISO 20347 (2012)

Approval Signatory: HU, Ching-Hou

M996 Measurement of the Height of the Upper

Determination of Upper/Outsole and Sole Interlayer Bond Strength

Determination of Internal Toecap Length

Determination of Impact Resistance

Determination of Compress Resistance

Behavior of Toecaps (Thermal and Chemical)

Determination of Leakproofness

Determination of Footwear Slip Resistance

Determination of Thickness of Upper

Determination of Tear Strength of Upper, Lining and/or Tongue

Determination of Tensile Properties of Upper Material-General (Polymeric, Leather)

Determination of the Breaking Force of a Rubber Boot Upper

Determination of Upper Flexing Resistance

Determination of Water Vapor Permeability (WVP)

Determination of Water Vapor Absorption (WVA)

Determination of Water Vapor Coefficient

Determination of Resistance to Hydrolysis of Upper

Determination of Conformity of Cleated Area (Design)

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Outsole Thickness (Design)

Determination of Tear Strength of Outsole

Determination of Outsole Abrasion Resistance

Flexing Test

Determination of Resistance to Hydrolysis of Outsole

CNS 20344 (2015)

CNS 20345 (2015)

CNS 20346 (2016)

CNS 20347 (2016)

ISO 20344 (2011)

ISO 20345 (2011)

ISO 20346 (2014)

ISO 20347 (2012)

Approval Signatory: HU, Ching-Hou

M999 Upper-General

Sole Performance Construction

Penetration Resistance-Construction

Seat Region (Design B, C, D, E)

Determination of Insock Thickness

Outsole-Design

CNS 20345 (2015)

CNS 20346 (2016)

CNS 20347 (2016)

ISO 20345 (2011)

ISO 20346 (2014)

ISO 20347 (2012)

Approval Signatory: HU, Ching-Hou

18. 09 Commodity

Footwear, Material

M999 Footwear – Test method for slip resistance

ISO 13287: 2019

CNS 16167 (2022)

Coefficient of friction: (0.10 to 1.96)

Approval Signatory: HU, Ching-Hou

18. 09 Commodity

Material/Sole/Footwear

M999 Footwear — Determination of coefficient of friction for footwear and sole

components

ISO 24267: 2020 CNS 16186 (2023)

Coefficient of friction: (0.10 to 1.96)

Approval Signatory: HU, Ching-Hou

M999 Falling Mass Shock Absorption Test

SATRA TM142 (1992)

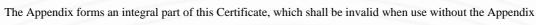
g value: (5 to 60) g

Deceleration: (50 to 585) m/s² Energy return: (10 to 100) %

Rebound Height: (5 to 50) mm

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✓ 18. 09 Commodity
Insert of Footwear
M999 Penetration Resistance
EN 12568 Sec. 7.2.1 (2010)

Load: $\leq 1765 \text{ N}$ Load: $\leq 180 \text{ kgf}$

Approval Signatory: HU, Ching-Hou

18. 12 Commodity
Bags, Cases and Trunks
M996 Falling Test
Loading Test
Cold-resisting and Heat-proof Test
Expand and Contract Pull-handle Functioning Test
Walking Test
CNS 15331 (2018)

Approval Signatory: HU, Ching-Hou

Accreditation Program for Designated Testing Laboratory for Commodities Inspection

7 06. 03 Polymer and Composite Materials Safety Footwear, Protective Footwear C074 Hexavalent Chromium Test CNS 20345 Sec. 5.4.9 (2015/1) CNS 20346 Sec. 5.4.9 (2016/1) (3 to 80) mg/kg

Approval Signatory: HU, Ching-Hou

C091 pH Value Test CNS 20345 Sec. 5.4.7 (2015/1) CNS 20346 Sec. 5.4.7 (2016/1) pH (3.0 to 10.0)

Approval Signatory: HU, Ching-Hou

18. 09 Commodity
Safety Footwear, Protective Footwear
M017 Toe Protection-General
CNS 20345 Sec. 5.3.2.1 (2015/1)
CNS 20346 Sec. 5.3.2.1 (2016/1)
(0 to 150) mm

Approval Signatory: HU, Ching-Hou

M017 Upper-General CNS 20345 Sec. 5.4.1 (2015/1) CNS 20346 Sec. 5.4.1 (2016/1) (0 to 300) mm

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M996 Height of Upper Upper/Outsole Bond Strength Internal Toecap Length Impact Resistance of Safety Footwear Compression Resistance of Safety Footwear Behavior of Toecaps Leakproofness of Safety Footwear Slip Resistance Requirement of Safety Footwear Thickness of Upper Tear Strength of Upper Tensile Properties of Upper Flexing Resistance of Upper Water Vapor Permeability and Coefficient Hydrolysis of Upper Design of Outsole Tear Strength of Outsole Abrasion Resistance of Outsole Flexing Resistance of Outsole Hydrolysis of Outsole Interlayer Bond Strength of Outsole CNS 20345 (2015/1) CNS 20346 (2016/1)

Approval Signatory: HU, Ching-Hou

M999 Sole Performance Construction CNS 20345 Sec. 5.3.1.1 (2015/1) CNS 20346 Sec. 5.3.1.1 (2016/1)

Approval Signatory: HU, Ching-Hou

✓ 18. 09 Commodity Safty Footwear, Protective Footwear M999 Seat Region (Design B, C, D, E) CNS 20345 Sec. 5.2.3 (2015/1) CNS 20346 Sec. 5.2.3 (2016/1)

Approval Signatory: HU, Ching-Hou

T 18. 12 Commodity
Bags, Cases and Trunks
M996 Falling Test
Loading Test
Expand and Contract Pull-handle Functioning Test
Walking Test
CNS 15331 (2018/12)

Approval Signatory: HU, Ching-Hou

(Null below)

