



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

Certificate of Accreditation

(Certificate No : L1314-251206)

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 Program : Accreditation Program for Designated Testing Laboratory
for Commodities Inspection



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
December 06, 2025

Accreditation Number : 1314

Laboratory Head : HU, Ching-Hou

▀ 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: ≥ 0.02 mg/kg with 50 cm²

Negative: < 0.02 mg/kg with 50 cm²

Approval Signatory: HU, Ching-Hou

▀ 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

P2, total 8 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



▼ 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

▼ 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

▼ 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



▼ 18.09 Commodity

Safety Footwear, Protective Footwear, Occupational Footwear and their outsole

M017 Determination of cleat design in the waist area

ISO 20344: 2021/Amd 1: 2024 Sec. 8.2.4

ISO 20345: 2021/Amd 1: 2024 Sec. 6.4.3.3, 6.4.3.4

ISO 20346: 2021/Amd 1: 2024 Sec. 6.4.3.3, 6.4.3.4

ISO 20347: 2021/Amd 1: 2024 Sec. 6.4.3.3, 6.4.3.4

Determination of the Length in the waist area (a) : (0 to 100) mm

Determination of the Height in the heel breast (b) : (0 to 50) mm

Determination of the Angle of the heel breast (α) : 80° to 130°

Determination of the Cleat height in the waist area (d) : (0 to 10) mm

Approval Signatory: HU, Ching-Hou

▼ 18.09 Commodity

Safety Footwear, Protective Footwear, Occupational Footwear

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)

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



M996 Dimensional Conformity of Inserts
Determination of Resistance to Hot Contact
Determination of Abrasion Resistance of Lining and Insock
Determination 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 Anti-penetration 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

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

Approval Signatory: HU, Ching-Hou

▼ 18.09 Commodity
Insert of Footwear
M999 Penetration Resistance
EN 12568 Sec. 7.2.1 (2010)
Load: \leq 1765 N
Load: \leq 180 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

▀ 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

Approval Signatory: HU, Ching-Hou

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

P7, total 8 pages



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

▼ 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

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