

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>23671</b>  Accredited to <b>ISO/IEC 17025:2017</b>	<b>SATRA Technology Services (Dongguan) Limited</b>	
	<b>Issue No: 007    Issue date: 10 February 2025</b>	
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Testing performed at the above address only		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOTWEAR	<u>Physical Testing</u>	
	Specific ergonomic features	EN ISO 20344:2021+A1:2024 Clause 5.1 EN ISO 20344:2021 Clause 5.1 (withdrawn)
	Determination of upper/outsole and sole interlayer bond strength	EN ISO 20344: 2021+A1 :2024 Clause 5.2 EN ISO 20344: 2021 (withdrawn) Clause 5.2 EN ISO 20344: 2011 (withdrawn) Clause 5.2
	Determination of internal toe cap length	EN ISO 20344 :2021+A1 :2024 Clause 5.3 EN ISO 20344: 2021 Clause 5.3 (withdrawn) EN ISO 20344: 2011(withdrawn) Clause 5.3  ISO 22568-1: 2019 Clause 5.2.1  ISO 22568-2: 2019 Clause 5.2.1  ISO 22568-1: 2019 clause 5.2.2  ISO 22568-2: 2019 Clause 5.2.2
	Determination of resistance to water for whole footwear: Dynamic test	EN ISO 20344:2021+A1:2024 Clause 5.19 EN ISO 20344: 2021 Clause 5.19 (withdrawn)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)	
	Determination of insulation against heat	EN ISO 20344:2021+A1:2024 Clause 5.15 EN ISO 20344: 2011 (withdrawn) Clause 5.15
	Determination of impact Resistance and compression resistance and Determination of the dimensional conformity of inserts and the penetration resistance of the sole	EN ISO 20344:2021+A1:2024 Clauses 5.4, 5.5 and 5.8 EN ISO 20344:2021 Clauses 5.4, 5.5 and 5.8 (withdrawn) EN ISO 20344:2011 (withdrawn) Clause 5.4 and 5.5, 5.8
	Determination of impact resistance of a metatarsal protection	EN ISO 20344:2021+A1:2024 Clause 5.20 EN ISO 20344:2021 Clause 5.20 (withdrawn)
	Determination of resistance of upper to cutting	EN ISO 20344:2021+A1:2024 Clause 5.23 EN ISO 20344: 2021 Clause 5.23 (withdrawn) ISO 23388: 2018 Clause 6.2
Foot and leg protectors	Determination of impact resistance and compression resistance	EN ISO 22568-1:2019 Clause 5.3 EN ISO 22568-1:2019 Clause 5.4 EN ISO 22568-2:2019 Clause 5.3 EN ISO 22568-2:2019 Clause 5.4  EN 12568:2010 (withdrawn) Clauses 5.2.2 & 5.2.3
Foot and leg protectors	Determination of perforation resistance	EN ISO 22568-3:2019 Clause 5.1 EN ISO 22568-4:2021 Clause 5.1
	Behaviour of Toe Caps (thermal & Chemical) Corrosion resistance Thermal and chemical behaviour	EN ISO 20344:2021+A1:2024 Clause 5.6 EN ISO 20344:2021 Clause 5.6 (withdrawn)  ISO 22568-1:2019 Clause 5.5 ISO 22568-2:2019 Clauses 5.5.2, 5.5.3 & 5.5.4



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)  Determination of the perforation resistance of footwear with a metallic perforation resistant insert  Determination of the perforation resistance of footwear with a non-metallic perforation resistant insert.  Behaviour of perforation resistant inserts (thermal & chemical) Corrosion resistance Perforation resistance high temperature acid/alkali sweat & fuel oil  Determination of the flex resistance of perforation resistance inserts Flex resistance (Metallic insert) Flex resistance (Non Metallic insert)  Determination of electrical resistance  Slip resistance	EN ISO 20344:2021+A1:2024 Clause 5.9 EN ISO 20344: 2021 Clause 5.9 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 5.10 EN ISO 20344: 2021 Clause 5.10 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 5.11 EN ISO 20344: 2021 Clause 5.11 (withdrawn)  ISO 22568-3:2019. Clause 5.3 ISO 22568-4:2021 Clauses 5.3.2, 5.3.3, 5.3.4 & 5.3.5  EN ISO 20344:2021+A1:2024 Clause 5.12 EN ISO 20344: 2021 Clause 5.12 (withdrawn)  ISO 22568-3:2019. Clause 5.2 ISO 22568-4:2021. Clause 5.2  EN ISO 20344:2021+A1:2024 Clause 5.13 EN ISO 20344: 2021 Clause 5.13 (withdrawn)  EN ISO 22568-4:2021 Clause 5.4  EN ISO 20344:2021+A1 2024 Clause 5.14 EN ISO 20344: 2021 Clause 5.14 (withdrawn)  EN ISO 13287: 2019  SATRA TM144:2021



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FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)  Determination of insulation against heat  Determination of insulation against cold  Determination of Energy Absorption of the Seat Region  Measurement of the height of the upper and determination of the area for non water vapour permeable materials  Determination of tear strength of upper, lining or tongue  Determinaiton of the tensile properties of upper material	  EN ISO 20344 :2021+A1 :2024 Clause 5.15 EN ISO 20344:2021 Clause 5.15 (withdrawn) EN ISO 20344:2011 (withdrawn) Clause 5.12  EN ISO 20344 :2021+A1 :2024 Clause 5.16 EN ISO 20344:2021 Clause 5.16 (withdrawn)EN ISO 20344:2011 (withdrawn) Clause 5.13  EN ISO 20344:2021+A1:2024 Clause 5.17 EN ISO 20344: 2021 Clause 5.17 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 6.2 and 6.2.3 EN ISO 20344:2021 Clause 6.2 (withdrawn) EN ISO 20344:2011(withdrawn) Clause 6.2  EN ISO 20344:2021+A1:2024 Clause 6.3 EN ISO 20344: 2021 Clause 6.3 (withdrawn) ISO 3377-2:2016 ISO 4764-1:2016 Method B  EN ISO 20344:2011 (withdrawn) Clause 6.3  EN ISO 20344 :2021+A1 :2024 Clause 6.4 EN ISO 20344: 2021 Clause 6.4 (withdrawn)



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)  Determination of water vapour permeability      Determination of water vapour absorption      Determination of water vapour coefficient      Determination of the abrasion resistance of lining and insock      Determination of water penetration and water absorption for upper      Determinaton of insole, insock and footbed thickness	  EN ISO 20344:2021+A1:2024 Clause 6.6 EN ISO 20344: 2021 Clause 6.6 (withdrawn) (ISO 5402-1: 2017) (ISO 14268:2012)  EN ISO 20344: 2011 (withdrawn) Clause 6.6  EN ISO 20344:2021+A1:2024 Clause 6.7 EN ISO 20344: 2021 Clause 6.7 (withdrawn)  EN ISO 20344: 2011 (withdrawn) Clause 6.7  EN ISO 20344 :2021+A1 :2024 Clause 6.8 EN ISO 20344: 2021 Clause 6.8 (withdrawn)  EN ISO 20344: 2011 (withdrawn) Clause 6.8  EN ISO 20344 :2021+A1 :2024 Clause 6.12 EN ISO 20344: 2021 Clause 6.12 (withdrawn) EN ISO 20344: 2011 (withdrawn) Clause 6.12  EN ISO 20344 :2021+A1 :2024 Clause 6.13 EN ISO 20344: 2021 Clause 6.13 (withdrawn) EN ISO 20344: 2011 (withdrawn) Clause 6.13 ISO 5403-1: 2011  EN ISO 20344 :2021+A1 :2024 Clause 7.1 EN ISO 20344 :2021 Clause 7.1 (withdrawn)



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FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)  Determination of water absorption and desorption of insloe and or insock  Determination of abrasionresistance of insole  Determination of outsole dimensions  Determination of tear strength of outsole  Determination of outsole abrasion resistance  Determination of footwear rigidity  Determination of upper thickness	  EN ISO 20344 :2021+A1 :2024 Clause 7.2 EN ISO 20344: 2021 Clause 7.2 (withdrawn) EN ISO 20344: 2011 (withdrawn) Clause 7.2  EN ISO 20344:2021+A1:2024 Clause 7.3 EN ISO 20344:2021 Clause 7.3 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 8.2 EN ISO 20344:2021 Clause 8.2 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 8.3 EN ISO 20344:2021 Clause 8.3 (withdrawn)  EN ISO 20344 :2021+A1 :2024 Clause 8.4 EN ISO 20344: 2021 Clause 8.4 (withdrawn) EN ISO 20344: 2011 (withdrawn) Clasue 8.3  ISO 4649:2017 Method A  EN ISO 20344:2021+A1:2024 Clause 8.5 EN ISO 20344: 2021 Clause 8.5 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 6.1 EN ISO 20344:2021 Clause 6.1 (withdrawn) ISO 23529:2016 Clause 7.1 EN ISO 20344:2011 (withdrawn) Clause 6.1 ISO 23529:2010 Clause 7.1 (withdrawn)



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FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)  Determination of flexing resistance of outsole  Determination of resistance to hydrolysis of outsole  Determination of Resistance to Fuel Oil  Determination of resistance to Hot Contact  Determination of Coefficient of Friction for Evaluation of Slip Performance of Footwear and Test Surfaces/Flooring Using a Whole Shoe Tester  Standard Specification for Performance Requirements when Evaluating Slip Resistance of Protective (Safety) Footwear using ASTM F2913 Whole Shoe Test Method  Protective Toe Impact Resistance  Protective Toe Compression Resistance (C)  Conductive Protective Footwear(Cd)	  EN ISO 20344:2021+A1:2024 Clause 8.6 EN ISO 20344:2021 Clause 8.6 (withdrawn) EN ISO 20344:2011 (withdrawn) Clause 8.4  EN ISO 20344:2021+A1:2024 Clause 8.7 EN ISO 20344:2021 Clause 8.7 (withdrawn)  EN ISO 20344:2021+A1:2024 Clause 8.8 EN ISO 20344: 2021 Clause 8.8 (withdrawn) ISO 1817:2015 Clause 8.3 ISO 868:2003  EN ISO 20344:2021+A1:2024 Clause 8.9 EN ISO 20344: 2021 Clause 8.9 (withdrawn)  ASTM F2913-19  ASTM F3445-21  ASTM F2412-18a Clause 5 ASTM F2413-18 Clause 5.2  ASTM F2412-18a Clause 6 ASTM F2413-18 Clause 5.3  ASTM F2412-18a Clause 8 ASTM F2413-18 Clause 5.5



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FOOTWEAR (cont'd)	<u>Physical Testing</u> (cont'd)  Electric Hazard Resistant Footwear(EH)  Static Dissipative Footwear (SD)  Puncture Resistance Footwear (PR)  <u>Flex Resistance</u>	ASTM F2412-18a Clause 9 ASTM F2413-18 Clause 5.6  ASTM F2412-18a Clause 10 ASTM F2413-18 Clause 5.7  ASTM F2412-18a Clause 11 ASTM F2413-18 Clause 5.8  ASTM F2412-18a Clause 11.7 ASTM F2413-18 Clause 5.8.8
GLOVES	<u>Physical Testing</u>  Abrasion resistance, blade cut resistance, tear resistance, impact cut, puncture resistance,  Determination of hand and glove measurement and dimensions and Determination of gloved finger dexterity  Determination of resistance to penetration  Requirements and testing for freedom from holes  Requirements and testing for physical properties	EN 388:2016 +A1 2018 EN ISO 13997:1999 EN 13594:2015 Clause 6.9  EN 420:2003+A1:2009 Clauses 6.1 and 6.2 EN ISO 21420:2020 Clause 5.1 EN ISO 21420:2020 Clause 5.2  EN 374-2:2019  EN 455-1:2020  EN 455-2:2015
PLASTICS AND RUBBER	<u>Physical Testing</u>  Abrasion resistance – rotating drum method  Resistance to crack initiation and growth - belt flex method  Dynamic water penetration test  Peel strength of adhesive bonds  Peel strength of footwear sole bonds	SATRA TM174:2016  SATRA TM133:2017  SATRA TM230:2017  SATRA TM401:2000  SATRA TM411:2023





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PLASTICS AND RUBBER (cont'd))	<u>Physical Testing</u> (cont'd)  Resistance to water penetration – Penetrometer test  Determination of water vapour permeability  Determination of water vapour absorption  Density of materials by volume displacement	SATRA TM171:2017  SATRA TM 172: 1993  SATRA TM 178: 2001  SATRA TM134: 1998 (2010)
TEXTILES AND LEATHER	<u>Physical Testing</u>  Colourfastness to Crocking  Colourfastness to Water & Perspiration  Colourfastness to Rubbing  Lastometer ball burst test  Tear Strength (Bauman method)  Breaking Strength and extension at break  Vamp flex test - resistance to creasing and cracking  Trousers leg tear  Abrasion resistance  Resistance to water penetration - Maeser test	SATRA TM167:2017  SATRA TM335:2018  SATRA TM8: 2004  SATRA TM24:2017  SATRA TM162:2017  SATRA TM29:2017  SATRA TM25:2020  SATRA TM30:2017  SATRA TM31:2021  SATRA TM 34: 2019
Where BS EN standards have exact equivalents to EN standards, these are also included in the accreditation. Also Where EN ISO standards have exact equivalents to ISO standards these are also included in the accreditation		
END		