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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

I.	LEATHER			
1.	Leather & Its Products,	Color Fastness to Crocking - Crock meter	ASTM D 5053-03	Qualitative Grade: 1 to 5
	Footwear	Color Fastness to	ISO 17700 (Method A),	Qualitative
		Rubbing - Veslic	ISO 11640	Grade: 1 to 5
		Color Fastness to	ISO 11641	Qualitative
		Perspiration		Grade: 1 to 5
			ISO 17700 (Method C)	
		Color Fastness to	ISO 11642	Qualitative
		Water		Grade: 1 to 5
		Color fastness to	ISO 15701	Qualitative
		Migration into PVC		Grade: 1 to 5
		Color Fastness to	ISO 15700	Qualitative
		Water Spotting		Grade: 1 to 5

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SI.	Product / Material	Specific Test	Test Method Specification	Range of Testing /
	of Test	Performed	against which tests are	Limits of Detection
			performed	

MECHANICAL TESTING

I.	LEATHER AND	ATHER AND LEATHER PRODUCTS			
1.	Leather & Its Products,	Breaking Strength (Grab)	ASTM D 2208	10 N to 2500 N	
	Footwear	Elongation	ASTM D 2211	0 to 500 %	
		Tensile strength Elongation	NF EN 13522	1 N/mm ² to 150 N/mm ² 0 to 500 %	
		Tensile strength/Elongation	ISO 20344		
			ISO 3376		
		Tensile Strength	ASTM D 2209		
		Tear strength(Silt)	ASTM D 2212	10 N to 1000 N	
		Tear strength (single	ASTM D 4704		
		edge)	NF EN 13571		
			ISO 3377 – 1		
		Tear strength (Double	ISO 20344		
		edge)	ISO 3377 -2		
		Adhesion of Finish	ISO 11644	0.5 to 100 N/10mm	
		Heel Attachment Strength	SATRA TM 113	10 to 2000 N	
		Top Piece Attachment Strength	BS 5131 - 5.9	10 N to 2000 N	
		Strength of Buckle Fastening Assemblies	BS 5131 Section 5.11	10 N to 2500 N	
		Breaking Strength of Laces	BS 5131 Section 3.7	10 N to 2000 N	
		Sole Bond Peeling Strength	BS 5131 Section 5.4	1 N/mm to 100 N/mm	
			ISO 20344		
			ISO 17708		
		Adhesion of Stuck-On	BS 5131 Section 5.1	Qualitative	

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		and Moulded-On Soles – Toe/Heel		1 kg to 100 kg
		Bursting Strength(Ball) / Grain Crack	ISO 3379	0 .1 kg to 80 kg 0.1 mm to 15 mm
		Upper Flexing Resistance – Bally	ASTM D 6182	Qualitative (1 to 999999 Cycles)
		Method	ISO 5402-1	
			NF EN 13512	
			ISO 20344	
		Water Penetration – Bally Penetrometer	ISO 5403-1	10 minutes- 24 hours 0.1 % to 300 %
		Method	ISO 20344	
		Water Penetration – Maeser Method	ASTM D 2099	1 to 9999999 Cycles 0.1 % to 300 %
			ISO 5403-2	
		Water Vapour Permeability	ISO 14268	0.1 mg/cm ² /hr to 50 mg/cm ² /hr
			ISO 17699	
			ISO 20344	
			BS EN 13515	
		Water Vapour	ISO 17699	0.1 mg/cm ² to 100 mg/cm ²
		Absorption	ISO 20344	
			BS EN 13515	
		Water Vapour Coefficient / Number	ISO 14268	Qualitative (0.1 to 500)
			ISO 20344	
		Sole Abrasion Resistance – Drum	ASTM D 5963-04	Qualitative 1 mm ³ to 900 mm ³
		Method	BS 903 A9 Method A	
			ISO 4649, NF EN 12770	
		Abrasion Resistance – Martindale Method	NF EN 13520	Qualitative (1 to 999999 Cycles)
			ISO 20344	
		Abrasion Resistance of Shoe Laces	BS 5131 Section 3.6	Qualitative (1 to 999999 Cycles)

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		Whole Shoe Flexing	SATRA TM 92	Qualitative (1 to 999999 Cycles)
		Whole Shoe Water Penetration	SATRA TM 77	Qualitative (1 to 999999 Cycles)
		Sole Flexing – Bennewart	DIN 53543	Qualitative (1 to 999999 Cycles) 0.1 to 10 mm
			ISO 17707, ISO 20344	
		Heat stability / Dry Heat Resistance of Leather	ISO 17227	Qualitative 0.5 % to 50 %
		Resistance to Ageing	DIN EN 12749	Qualitative
		Break/Pipiness	ASTM D 2941	0 to 8
			BS 5131 Section 3.5	
		Grain Crack Resistance	ASTM D 6075	4.5 to 68
		(Leather Sole)	ISO 3378	
		Density	ISO 2781 (Method - A)	0.1 mg/m ³ to 5 mg/m ³
	_	Hardness (Shore A)	ASTM D 2240, DIN 53505	10 to 90
			ISO 868	
		Thickness	ASTM D 1813, ISO 2589	0.1 mm to 8 mm
		Footwear Last Size and Fit Measurements for Footwear Fit Mark	LAB_P(L)_SOP_004	0.1 mm to 380 mm
		Closed Type of Footwear Size and Fit Measurements for Footwear Fit Mark	LAB_P(L)_SOP_005	0.1 mm to 380 mm
		Open Type of Footwear Size and Fit Measurements for Footwear Fit Mark	ISO 9407	0.1 mm to 380 mm
2.	Leather & its	Stitch Tear Strength	ASTM D 4705	10 N to 1000 N
	Products,	Needle Perforations	NF EN 13572 (Method A)	1 N/mm to 100 N/mm
_	Footwear &	Seam Strength	BS 5131 Section 5.13	1 N/mm to 100 N/mm
	Leather		NF EN 13572 (Method B)	