

TECHNICAL SHEET



Article:	BOSS1 XENO
Norm:	EN ISO 20347:2012
Safety Class:	OB E A SRC
Footwear height:	Mod. A, H 66 mm (< 113 mm; Rif. EN ISO 20345-5.2.2)
Width:	11
Construction:	STROBEL; PU-MONODENSITY SOLE
Cleaning and maintenance:	Use only soft brushes and water. Do not use substances like alcohol, thinners, gasoline, oil or any other chemicals. Keep the footwear, dry and clean, in a proper place at room temperature.
Suggested fields:	Food industry, chemical-pharmaceutical industry, health field.

Entire footwear: components					
Component	Description	Value	Norm Requirements	EN 20345	
Toe-cap	Impact resistance(200 J)	N/A	≥ 14 mm	5.3.2.3	
	• Free height after impact				
	Compression resistance (15 kN)	N/A	≥ 14 mm	5.3.2.4	
	• Free height after compression				
Sole (SRC)	Slip resistance				
	• SRA – Sole (entire sole)	0,35	≥ 0,32	5.3.5.4	
	• SRA – Heel (Angle of 7°)	0,30	≥ 0,28	5.3.5.4	
	• SRB – Sole (entire sole)	0,20	≥ 0,18	5.3.5.4	
	• SRB – Heel (Angle of 7°)	0,16	≥ 0,13	5.3.5.4	
(P)	Puncture resistance	N/A	≥ 1100 N	6.2.1.1.2	
Footbed (A)	Antistatic properties				
	• Electrical resistance	Dry: 4,60 x 10 ⁸ Ω Humid: 8,99 x 10 ⁷ Ω	≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω ≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω	6.2.2.2 6.2.2.2	
Sole/Upper	Thermal insulation				
	Heat (HI)	Insole temperature increase	N/A	≤ 22°C	6.2.3.1
	Cold (CI)	Insole temperature decrease	N/A	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	30J	≥ 20 J	6.2.4	
(WR)	Water resistance (Water absorption)	N/A	≤ 3 cm ²	6.2.5	
(M)	Metatarsal protection	N/A	≥ 40 mm	6.2.6	

Upper				
Component	Description	Value	Norm Requirements	EN 20345
Suede/leather	Tear resistance	173 N	≥ 120 N	5.4.3
	Traction resistance	16 N/mm ²	≥ 15 N/mm ²	5.4.4
	Water steam permeability	10,4 mg/cm ² h	≥ 0.8 mg/cm ² h	5.4.6
	pH value	4,15	≥ 3,2	5.4.7
	Chromium VI	Not detected	Not detectable	5.4.9
	Water passed	N/A	≤ 0.2 g	6.3
	Water absorption	N/A	≤ 30%	6.3

Lining					
Component	Description	Value	Norm Requirements	EN 20345	
No-woven Fabric	Tear resistance	15 N	≥ 15 N	5.5.1	
	Abrasion resistance	<ul style="list-style-type: none"> Dry : the surface shows no holes humid: the surface shows no holes 	No holes till 51.200 cycles	5.5.2	
	Water steam release	8,5 mg/cm ² h	≥ 2,0 mg/cm ² h	5.5.3	
	pH value	N/A	Not detectable	5.5.4	
	Chromium VI	N/A	Not detectable	5.5.5	

Insole				
Component	Description	Value	Norm Requirements	EN 20345
TNT coupled with leather	Thickness	3,0 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	Not detectable	5.7.2
	Water absorption	90 mg/cm ²	≥ 70 mg/cm ²	5.7.3
	Water release	94 %	≥ 80 %	5.7.3
	Abrasion resistance (after 400 cycles)	No damage	Damage ≤ to norms reference	5.7.4.1
	Chromium VI	N/A	Not detectable	5.7.5

Removable footbed				
Component	Description	Value	Norm Requirements	EN 20345
Leather	Thickness	3,5±0,5 mm	N/A	5.7.1
	pH value	3,9	Not detectable	5.7.2
	Water absorption	Permeable	Permeable or ≥ 70mg/cm ²	5.7.3
	Water release	Permeable	Permeable or ≥ 80%	5.7.3
	Abrasion resistance	No damage	Dry No holes till 25600 cycles Humid no holes till 12800 cycles	5.7.4.2
	Chromium VI	N/A	Not detectable	5.7.5

Sole					
Component	Description	Value	Norm Requirements	EN 20345	
PU MONODEN-SITY	Sole thickness without profiles	8,5 mm	≥ 4 mm	5.8.1.1	
	Profile height	N/A	≥ 2,5 mm	5.8.1.3	
	Tear resistance	5,5 kN/m	≥ 5 kN/m	5.8.2	
	Abrasion resistance	<ul style="list-style-type: none"> relative volume loss 	205 mm ³	≤ 250 mm ³	5.8.3
	Flexion resistance	<ul style="list-style-type: none"> Notches increase after 30.000 cycles 	2 mm	≤ 4 mm	5.8.4
	Notches increase after 150.00 cycles		2 mm	≤ 6 mm	5.8.5
	Tread- Midsole detachment		N/A	≥ 4 N/mm; (*) ≥ 3 N/mm with sole ripping	5.8.6
	(HRO) Contact heat resistance (300°C)		N/A	No damage (melting, breaking)	6.4.1
	(FO) Fuel resistance (volume changes)		N/A	≤ 12%	6.4.2

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