

ORCHID_20 S2 FO SR



DESCRIPTION	NORM EN ISO 20345:2022 + A1:2024	RESULT	REQUIREMENT
UPPER: Microfiber	5.4.3 Tear strength	98 N	≥ 60 N
	5.4.6 Water vapor permeability Coefficient	1,2 mg/cm ² h 16,8 mg/cm ²	≥ 0,8 mg/cm ² h ≥ 15,0 mg/cm ²
VAMP LINING: Breathable, abrasion resistance.	5.5.2 Tear strength	51 N	≥ 15 N
	5.5.3 Abrasion resistance (Wet)	No holes	25.600 cycles
	Abrasion resistance (Dry)	No holes	51.200 cycles
	5.5.4 Water vapor permeability Coefficient	2,6 mg/cm ² h 22,3 mg/cm ²	≥ 2,0 mg/(cm ² h) ≥20,0 mg/cm ²
QUARTER LINING: Breathable, abrasion resistance.	5.5.2 Tear strength	35 N	≥ 15 N
	5.5.3 Abrasion resistance (Wet)	No holes	25.600 cycles
	Abrasion resistance (Dry)	No holes	51.200 cycles
	5.5.4 Water vapor permeability Coefficient	80,6 mg/cm ² h 645,2 mg/cm ²	2,0 mg/(cm ² h) ≥20,0 mg/cm ²
COUNTER LINING: Breathable, abrasion resistance.	5.5.2 Tear strength	35 N	≥ 15 N
	5.5.3 Abrasion resistance (Wet)	No holes	25.600 cycles
	Abrasion resistance (Dry)	No holes	51.200 cycles
	5.5.4 Water vapor permeability Coefficient	80,6 mg/cm ² h 645,2 mg/cm ²	≥ 2,0 mg/(cm ² h) ≥20,0 mg/cm ²
SAFETY TOE CAP: Non-metallic polycarbonate safety toe.	5.3.2.6 Impact resistance	16mm	≥ 14 mm
	5.3.2.7 Compression resistance	15 mm	≥ 14 mm
PIERCE-RESISTANCE: Textile pierce proof footbed	6.2.1.1.3 Resistance to perforation	PASS	≥ 1100 N

exena.

FOOTBED: Removable,
cushioned, antistatic insole.

5.7.4.2 Abrasion resistance (Dry)
Abrasion resistance (Wet)

No holes
No holes

25.600 cycles
12.800 cycles

OUTSOLE: PU, Antislip sole, SR

5.8.3 Tear strength

10,6 kN/m

≥ 5 kN/m

5.8.4 Abrasion resistance

239 mm³

≤ 250 mm³

5.8.5 Flexing resistance

2,0 mm

≤ 4,0 mm

5.8.6 Hydrolysis

3,0 mm

≤ 6,0 mm

6.4.2 Oils resistance

4,9 %

≤ 12%

6.2.10 Slip resistance on ceramic with
glycerin

(tilted towards the heel of 7°)

0,24

≥ 0,19

(tilted towards the tip of 7°)

0,25

≥ 0,22

5.3.5.2 Slip resistance on ceramic with
cleaning agent

(tilted towards the heel of 7°)

0,43

≥ 0,31

(tilted towards the tip of 7°)

0,42

≥ 0,36

6.2.2.2 Antistatic

Dry: 8,22 MΩ

0,1 ÷ 1000 MΩ

Wet: 3,46 MΩ

0,1 ÷ 1000 MΩ

SIZES: 35-48

WEIGHT: (g)

35	36	37	38	39	40	41	42	43	44	45	46	47	48
670	709	748	787	826	865	904	943	982	1021	1060	1099	1138	1177