

Sievi - GORE-TEX® specification

Product : 48-52481-373-71M
Name : AL GT Fire XL+ F1 P A
Sizes : 39-48
Standard : EN 15090 2010: F1 P A SRC



Sole features:

Nitrile Rubber outer sole in combination with black mid-layer of Sievi's own innovation FlexStep Polyurethane material.

- The outsole is oil, fuel and acid resistant.

The sole has the following benefits:

- light and flexible
- excellent shock-absorption under the whole foot
- reduces fatigue
- safer than traditional soles when moving on various surfaces; gives "feel" for the ground
- good bond between the upper and the sole
- slip resistant material and sole pattern
- slip resistant, oblique safety heel
- antistatic
- external PU-bump cap as one piece with the sole: Safe, cannot loosen or come off
- Nitrile Rubber outsole heat resistant to 300 °C (=HRO)
- shock absorbent Sievi FlexStep mid-layer (heat resistant to 180 °C) gives effective insulation against heat. Optimal comfort.

Leather:	Hydrophobic & breathable leather.
Last:	Extra spacious, foot shaped anatomic last, width 12. Natural form allows foot muscles the best exercise. Contributes to the total well-being of the person.
Pull-on loops:	2 - made of 100 % polyester
Height:	330 mm
Weight (size 42):	Only 820 grams
Waterproof:	Yes: GORE-TEX®
Breathable:	Yes: 5.17 g/h in Whole Boot Comfort Test WBCT
Abrasion - lining:	About 10 times higher than EN ISO 20345
Reflection stripes:	Yes
Antistatic:	Yes
Protective toecap:	ALUMINIUM. Very light. Wide fitting, 5 different sizes; Toecap grows with boot sizes. Softener attached to toecap corner for more comfort. Conforms to EN ISO 20345; 200 J impact, 15000 N compression.
Steel mid-sole:	Conforms to EN ISO 20345; 1100 Newton penetration resistance.
Shank:	Built in the sole construction to give support for the feet, knees and back, thereby preventing backache and aching or fatigued feet.
Heel support: (stiffener)	Special plastic material; light and very strong. Supports the feet from behind and side. In-built stiffener ensures a strong heel construction so the boot holds its form well.
Removable insole:	Sievi Comfort insole, antistatic, breathable, machine-washable at 40 Celsius.

GORE-TEX® membrane:

100% PTFE (Polytetrafluorethylen)
 Chemicals: PH 2 - 13
 Temperature - 250 C to +260 C

The membrane protects you against water and also forms a barrier against fine dust particles, viruses and bacteria. Please ask for more detailed information. Over a short period of time the membrane forms an additional barrier to heat at high temperatures - it neither melts nor drips.

GORE-TEX® lining: 4 layer laminate:
Shell fabric: 80% PA / 20% PES
Middle layer: Functional non-woven 100% PES
Membrane: Based on ePTFE
Backing fabric: 100% PA
(PA= polyamid ; PES= polyester)

Features:

- Highest abrasion resistance
- Extremely durable
- High wicking
- Breathable
- All seasons use

Abrasion: - Martindale test (cycles)
Dry: min. 200.000 (SATRA PM 31; EN 20344 6.12)
Wet: min. 50.000 (DIN EN ISO 12947-2)

Thickness: 2,0 +/- 0,3 mm (EN ISO 5084)
Weight: 360 +/- 20 g/m² (DIN EN 12127)

Thermal insulation $R_{ct} > 45$
(DIN EN 31092; ISO 11092)
Vapour permeability < 20
(DIN EN 31092; ISO 11092)

Care products: There is no care product, which can harm the GORE-TEX® membrane. However, an unsuitable care product could have an impact on the degree of breathability of the leather. Please use recommended care products.

Certified Quality Control System: ISO 9001

Certified Environmental Management System: ISO 14001

Made in Finland.