TECHNICAL DATA SHEET



CE EN ISO 20345:2022 S3L SR FO HRO HI

AIRGEARPRO IRONFORGE S3L SR 6 INCH ANKLE SAFETY BOOT

PRODUCT OVERVIEW

The **AirGearPro IronForge** is a premium 15cm (6-inch) safety boot engineered for maximum protection in high-risk industrial environments. By utilizing advanced composite technology and thermal-resistant materials, it provides a superior alternative to traditional steel-toe footwear, optimized for extreme climates and sensitive work zones.

TECHNICAL COMPONENTS

BASIC COMPONENTS	TECHNICAL SPECIFICATION	OPERATIONAL BENEFIT
Height	6-Inch (15 cm)	Enhanced lateral ankle stability and superior protection against debris or liquid ingress.
Upper	Genuine Full-Grain Leather (WPA)	High-grade water penetration and absorption resistance with superior durability.
Toe Cap	Advanced Composite	200J Impact resistance, non-conductive, lightweight, and thermally neutral.
Midsole	High-Tenacity Kevlar® Puncture-resistant	Puncture-resistant (≥ 1100 N) textile insert provides 100% sole coverage and high flexibility.
Outsole	Dual-Density EVA/Rubber	Engineered for maximum shock absorption and durability on abrasive surfaces.
Lining	Breathable Air Mesh	High-moisture wicking lining to maintain foot hygiene and comfort in heat.

CERTIFIED PROTECTION RATINGS

- **S3L (EN ISO 20345:2022):** Full S3-level protection — 200 J impact-resistant toe, water-penetration-resistant upper, anti-static properties, energy-absorbing heel and a cleated outsole — with puncture protection from a non-metallic (Kevlar®) insert tested against the large 4.5 mm nail (the 'L'), rather than a steel midsole (S3) or small-nail insert (S3S).
- **SR (Slip Resistance):** Highest-tier certification for traction on ceramic tile and industrial surfaces, crucial for oily or wet environments.
- **HI (Heat Insulation):** Provides a specialized thermal barrier to minimize temperature increase within the boot in high-ambient environments.
- **HRO (Heat Resistant Outsole):** Outsole compound tested to withstand contact temperatures up to 300°C for 60 seconds without degradation.
- **FO (Fuel & Oil Resistance):** Specific resistance to hydrocarbons, ensuring outsole integrity in refinery and workshop zones.
- **Energy Absorption:** Integrated heel cushioning (20 Joules) to mitigate musculoskeletal fatigue during extended shifts.

CERTIFIED PROTECTION RATINGS

- **Advanced Ergonomics:** The 6-inch design provides critical support for uneven terrain while preventing the entry of sand and debris.
- **Thermal Neutrality:** The use of a composite toe cap and Kevlar midsole prevents the transfer of external heat to the foot, a critical advantage over steel components in high-heat operations.
- **Industrial Hardware:** Features a high-tensile lacing system with reinforced buckles for a secure, customized fit across the entire 15cm height.
- **Anti-Static Protection:** Designed to safely discharge static electricity, protecting both the wearer and sensitive electronic equipment.

SIZE AND PACKAGING

- **Colour:** Brown.
- **Size Range:** EU 35 – 48.
- **Packaging:** Individual branded shoe box; export-grade master cartons.