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OrthoLite Introduces ESD Shield Insole Technology For Work And Service Footwear

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OrthoLite introduces OrthoLite ESD Shield, the mechanically-bonded electrostatic discharge protection insole technology. OrthoLite ESD Shield is available in molded insoles with full heel-to-toe ESD protection.

Suited for work and service footwear, “ESD Shield is a top cover system that uses OrthoLite’s patented Fiber-Fusion technology using conductive copper fibers that require no glue and is mechanically bonded to OrthoLite X35 foam designed to

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deliver ESD insole protection that won't degrade over time while providing comfort and performance.

“Unlike conventional ESD insole technology that depends on a single row of stitching under the toes, ESD Shield elevates electrostatic discharge effectiveness through an innovative, patent-pending process that mechanically bonds the conductive fibers permanently from heel to toe into the OrthoLite foam using thousands of elliptical needles.”

“ESD Shield is the result of our pursuit to advance ESD insole technology while delivering the most comfortable, best-performing insoles on the market,” said Rob Falken, vice president, global innovation, OrthoLite. “The adhesive-free solution does not detract from the breathability, moisture-wicking or eco-friendly attributes of OrthoLite foam making ESD Shield the most comfortable, most effective ESD solution on the market.”

OrthoLite worked with third-party testing laboratory Intertek to quantify ESD Shield's

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performance. Intertek testing results “validate that ESD Shield measures in at less than 0.01 milliohm (mΩ), which is a 1,000X difference in ESD performance based on the ISO Standard 20344-2011, the industry standard for ESD footwear requiring electrical resistance of less than 100 mΩ. Additional third-party testing was also conducted for wear, abrasion resistance, die migration and peel strength.”

As a vertically-integrated U.S. company with facilities worldwide, OrthoLite collaborates with its brand partners to create and produce custom insoles.

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