

Honeywell Spectra® Fiber



Cut Protection

Honeywell

Honeywell Spectra® Fiber for Superior Cut Protection

The cutting edges of many materials can cause serious injury to workers unless those workers are well-protected. Physically challenging work situations – such as work in industrial settings, food preparation, meat and poultry processing and the automotive industry, among others – call for apparel that is durable and can keep workers safe.

That's where Honeywell Spectra® fiber comes in. The same high-strength fiber used in slings that help build bridges and in police vests that stop bullets can also provide excellent cut protection. Spectra fiber is used in a variety of protective garments, including gloves, sleeves, liners, jackets and aprons.

This highly advanced fiber is one of the world's strongest and lightest fibers. Spectra fiber is produced from a polyethylene polymer and is pound-for-pound 15 times stronger than steel and up to 40 percent stronger than aramids.

Superior cut resistance

Articles made with Spectra fiber can offer workers the highest level of cut protection without compromising comfort. ASTM and EN cut resistance standards show that garments made with Spectra fiber provide superior protective performance compared to other natural and synthetic materials. Generally, more cut resistance means less comfort, but the light weight of yarns and fabrics made with Spectra fiber means comfort, dexterity and sensitivity remain fully intact.

Durability & Longevity

Garments made with Spectra fiber display excellent durability, affording a longer useful life than those made of other materials. The outstanding abrasion resistance properties of Spectra fiber translate to a garment that is better able to withstand the wear and tear of intensive use.



Comfort

Comfort is key in physically demanding work situations. The light weight, breathability and low moisture absorption of garments made with Spectra fiber keep workers cool, which is especially important when jobs are done in very warm environments, such as outside on a summer day or inside a hot restaurant kitchen.

Our Leadership and Expertise in Cut Protection

Honeywell's advanced cut-resistant materials are at the forefront of workplace safety – using Spectra fiber to provide high-level cut protection, ultimate dexterity and comfort in protective garments. With extensive in-house material research and development capabilities, coupled with a global sales and technical support network, Honeywell offers the resources to support your business. Contact us today for product information or sample requests.

Comparison of Popular Cut Protection Materials			
	Polyester	Spectra Fiber	Aramid
Cut Resistance		●	●
Durability & Longevity		●	
Comfort	●	●	●



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