Advanced Personal Protection for the Work You Do.

HEAT! FLASH FIRE! ARC FLASH!

What's your flame resistant clothing worth?

In a word, it's priceless. However, everyone must take into account the fabric's general use and acceptability in real world applications. It must protect, yet be comfortable and durable, as well as affordable. PBI Performance Products has created an innovative high performance, 3-fiber blend of PBI, high-strength aramid, and Lenzing FR® which effectively addresses all these considerations – PBI TriGuard. For superior protection, comfort, and durability, it's the new standard in value and performance.

PBI TriGuard, from PBI Performance Products, sets a new standard for lightweight flame resistant protective fabric. This advanced breed is the right choice to meet the demands of most any environment. Is it right for you?

PBI fabrics have been protecting firefighters around the world for more than 20 years. It has been shown to be a rugged, high performance material that provides remarkable protection against high heat and flame, yet is so comfortable it can be easily worn for extended periods even during demanding physical activity. Now, this advanced protection has been engineered for the work you do.

A fabric's worth is directly related to its durability. It loses its protective qualities after laundering, or embrittle and falls apart after exposure to heat and flame. It is no bargain at any price. Unlike chemically treated garments, the protective qualities of PBI TriGuard are inherent in the fabric, not applied to it. Protection will not wear off or wash out. PBI TriGuard is rugged and durable, and retains its soft comfort and protective servility even after countless machine washings. It is abrasion resistant, tear resistant, and maintains fabric strength job after job. The secret to this amazingly functional, exceptionally comfortable and extremely durable fabric is the technologically advanced blend of PBI, micro-aramid and FR Lenzing fibers. Not only does this high-tech blend offer excellent protection against heat and flame, it offers magnificent value. In many professions flash fire is an ever-present danger. The unmatched thermal protection of PBI TriGuard maximizes personal fire safety by protecting against the heat and flame of fire and flashover. PBI TriGuard will not burn, melt, drip, shrink, crack or embrittle during or after thermal exposure, and provides superior resistance to tearing and breakopen even after repeated use and laundering. Not only does PBI TriGuard help to protect against fire related injuries, it can also contribute to the elimination of possible ignition sources in volatile environments. PBI TriGuard has excellent moisture regain and effectively dissipates the buildup of static charges. The electrical conductance of PBI TriGuard fabric is similar to 100% untreated cotton. PBI TriGuard offers excellent chemical resistance, resisting inorganic chemical exposure and retaining fabric integrity when exposed to most acids, bases and petroleum distillates. When you add it all up, PBI TriGuard is right on in protection.

What's flame resistant clothing worth? In a word, it's priceless. However, companies, agencies, and departments must take into account its use and acceptability in real world applications. The fabric must protect, but be durable, comfortable and affordable as well. PBI TriGuard from PBI Performance Products effectively addresses all these considerations. It stands up to repeated use and is as comfortable to wear as cotton, and more protective than Nomex®. It's longer wear-life and easy cleaning mean garments do not need to be replaced as often. PBI TriGuard is your assurance that you've covered the spectrum when it comes to personal protection. Anytime, anywhere, PBI TriGuard, it's right for you.
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No matter where you work, the tasks can often be physically demanding. The ability to move freely, without stress, can be critical. And, uncomfortable protective clothing increases stress, diminishes concentration, productivity and efficiency. PBI TriGuard is lightweight, soft and flexible, and provides significantly more moisture absorbency than other competing materials. Engineered to wear like cotton, PBI TriGuard is “亲近熟人” and allows air to circulate around the body. And, at weights lighter than FR Cotton and Nomex®, PBI TriGuard maintains the risk of heat related injuries, letting you act and react more precisely with greater safety.

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Garments made with PBI aramid fabrics are the ultimate in premium protective apparel.

Flame resistance is inherent in the fibers, and therefore is not affected by washing or dry cleaning. As with any garment, proper care and cleaning helps to maintain appearance and utility. The following general guidelines will help maximize the life of PBI blended protective garments.

Industrial Laundering and Drying
To preserve quality and prevent shrinkage, garments should be washed in warm water (no more than 105°F (40°C)). Repeated washings in hot water, especially water that is highly alkaline (pH 6-8 or greater) can reduce the garment's useful life. Never bleach any FR garment. Wash them separately from other garments to prevent contamination with lint or other flammable fibers. Flammable contaminants, such as grease, oil, or tar may require prewashing with a solvent before washing. Labels, emblems and trim should be checked for color fastness before adopting a washing regimen.

When tumble drying PBI garments, the basket temperature should not exceed 105°F (40°C). Garments should not be over dried or left in a hot dryer basket at the end of the drying cycle. To minimize wrinkling, remove and hang immediately after drying, or tumble without heat to cool garments before hanging.

Home Laundering and Drying
As with industrial laundering, the same warm water temperature guidelines should be observed at home. Set the machine on the permanent press cycle and use a heavy-duty detergent. Read and follow the manufacturer’s instructions if using other laundry aids. Wash FR garments separately from other clothing.

Dry Cleaning and Storage
PBI garments may be dry cleaned. Virgin solvent is recommended to prevent contaminating the garment with flammable materials that may be present in non-virgin solvents.

PBI garments should never be stored in direct sunlight. Storage in closed lockers, closets or drawers is recommended to minimize fading that can result from extended ultra-violet exposure.

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### PBI Performance Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Weights</th>
<th>4.5 oz/yd²</th>
<th>5.3 oz/yd²</th>
<th>6.0 oz/yd²</th>
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<tbody>
<tr>
<td>Construction</td>
<td>Twill</td>
<td>Twill</td>
<td>Twill</td>
<td></td>
</tr>
<tr>
<td>Dye Resistance</td>
<td>*****</td>
<td>*****</td>
<td>*****</td>
<td></td>
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<tr>
<td>Thermal Protection</td>
<td>***</td>
<td>****</td>
<td>*****</td>
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<tr>
<td>Comfort</td>
<td>*****</td>
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<tr>
<td>Moisture Regain (%)</td>
<td>7 - 7.5</td>
<td>7 - 7.5</td>
<td>7 - 7.5</td>
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<tr>
<td>Durability</td>
<td>***</td>
<td>****</td>
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**Standards**:
- NFPA 2112
- EN 531
- EN 1149-3
- SFI 3.2A/1
- SFI 3.2A/3
- SFI 3.2A/5


**Certification**:
- PBI TriGuard

**Labels**:
- PBI TriGuard
- PBI Gold
- Nomex®
- Lenzing FR®
- DuPont™

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