

# Chemical Splash Workwear: Enhance Productivity Without Sacrificing Protection

When working with hazardous liquid materials, you need reliable protection against chemical splashes. The proper protective garment assists in reducing worker injury and minimizes the risk of accidental skin contact. Choosing protective garments made with GORE® chemical splash fabric provides exceptional liquid splash protection without sacrificing comfort, and as a result enhances workers' productivity.

## Selection of Chemical Splash Protective Clothing

As a starting point, garments certified to the NFPA 1992 *Standard on Liquid Splash Protective Ensembles and Clothing for Hazardous Materials Emergencies* should be considered. This standard sets minimum levels of performance for protection provided by the overall ensemble, garment material, seams, closures, and other components. Before deciding on any protective garment for use in a chemical protection application, it is best to consult a trained safety or industrial hygiene professional. It is also necessary to understand the limitations of garments used for liquid splash protection.

Lac-Mac Limited is a leading manufacturer of certified chemical protective clothing, offering a range of liquid splash garment designs that utilize four different GORE® chemical splash fabrics.

**1** A red polyester fabric for non-flammable, hazardous liquid chemicals (meets the performance requirements of NFPA 1992 Standard)

**2** A hi-visibility orange fabric for non-flammable, hazardous liquid chemicals where high-visibility performance is required (meets the performance requirements of NFPA 1992 Standard, and ANSI/ISEA 107 *High Visibility Safety Apparel Standard*)

**3** A royal blue fabric for flammable, hazardous liquid chemicals (meets the performance requirements of NFPA 1992 Standard, and ASTM F2302 *Standard Performance Specification for Labeling Protective Clothing as Heat and Flame Resistant*).

**4** A navy fabric for flammable, high temperature liquid exposure, hazardous liquid chemicals (meets the performance requirements of NFPA 1992 Standard, and ASTM F2302 *Standard Performance Specification for Labeling Protective Clothing as Heat and Flame Resistant*).

These four fabrics also offer durability, tear resistance, water and stain repellency, attributes found in high-quality manufactured garments. These can be important elements when working with dangerous and life-threatening chemicals. Also, choose product made by an experienced manufacturer like Lac-Mac who is committed to the

highest level of quality and has an understanding of the complexities in the design to produce protective garments. For example, special attention is given to areas such as seams which are vulnerable to chemical penetration. Garments made with GORE®

chemical splash fabric are sewn using

GORE® TENARA® sewing thread, a specially-designed thread which is thermally stable and chemically resistant, preventing seams from failing during a chemical splash incident. Additionally, look for garments featuring seams which are sealed using GORE-SEAM® tape, which provides a robust system against liquid penetration.

## Comfort and Enhanced Safety

Clothing made from GORE® chemical splash fabric allows the body to 'breathe'; sweat can evaporate through the GORE® membrane, providing relief from heat stress. Heat stress can be a serious problem. In some cases, heat stress may be even more dangerous than the chemical itself. To release heat, your body sweats, and when the sweat evaporates your body is cooled. Protective garments made with GORE® chemical splash fabric are breathable, allowing the continual evaporation of sweat, providing relief from heat stress. Because these protective garments are lightweight and comfortable, they can be worn for an entire shift without excessive overheating. The key to the superior performance found in protective garments made with GORE® chemical splash fabric is their ability to be both breathable and provide exceptional liquid chemical penetration resistance.

Lac-Mac protective garments made with GORE® chemical splash fabrics provide a barrier to several inorganic and organic liquid challenges. If your objective is to reduce potential injuries related to liquid chemical splash, then Lac-Mac garments, along with professional safety training and practices are an excellent choice. Lac-Mac's extensive experience and knowledge can help guide the selection to the most appropriate protective garment for your specific application. For more than 25 years, Lac-Mac has been manufacturing durable, breathable, chemical splash protective garments that have been used throughout various industries. For information, please contact Lac-Mac at (888) 452-2622 or visit [www.lac-mac.com](http://www.lac-mac.com).

