



Military
Emergency Services
Firefighters
Industrial
Gloves & Footwear



**Membrane technologies
for protective apparel**



DIVERSE RANGE FOR TECHNICAL MARKETS,
GIVING YOU THE ADVANTAGE

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As a membranes specialist with over 40 years of experience, we acknowledge that one membrane will not suit all needs and requirements. We have developed a diverse range of membranes, including microporous PU, hydrophilic PU and PTFE bicomponent technologies.

Porelle® membranes are intended for lamination to create high-performance fabrics for a range of different market applications. They are designed to give your fabric additional beneficial properties to provide maximum waterproofness, breathability, durability and protection. Our membranes are used in a multitude of garment, glove and footwear applications, where performance combined with cost-effectiveness is vital.



 **MILITARY**
With probably the most extreme performance requirements, for military applications our membranes are designed to be consistent and durable to provide maximum protection. Whether it's the army, air force, navy or special forces, porelle® membranes can meet specific user requirements – offering protection against the elements and extreme working environments. This is why porelle® membranes are used by numerous military organisations, worldwide.



 **EMERGENCY SERVICES**
The front-line requirements for the Emergency Services are varied. For general use, waterproofness and breathability is important for day-to-day comfort. However, they can face an array of hazards which the user needs protection from. Porelle® membranes can be designed with a range of performance benefits, including viral and blood borne pathogen resistance, chemical resistance and flame resistance.



 **FIREFIGHTERS**
From fighting fires and dealing with chemical spillages to rescue operations, firefighter apparel is required to protect the user from numerous dangers and threats. Porelle® membranes are widely used in firefighter apparel to provide additional levels of protection matched by high durability to withstand the extreme conditions which they are subjected to.



 **INDUSTRIAL**
Our extensive and adaptable range will meet demanding application requirements, particularly for protection against extreme weather conditions. This is vital for those working in the postal service, rail service, road contractors, forestry, oil industry, private security and chemical industry. Porelle® membranes are engineered for high-performance outerwear, whatever the conditions.



 **TECHNICAL GLOVES**
Our extensive high-performance range of glove inserts are used globally by leading manufacturers for firefighters, military, Search & Rescue, police and industrial applications. We also offer a range of inserts for use in hats, designed to provide protection against wind, rain and snow in extreme weather conditions.



 **INDUSTRIAL FOOTWEAR**
Porelle® membranes are extensively used throughout the footwear industry to manufacture waterproof and breathable footwear linings. We have developed different options to be used in 3 or 4 layered laminates for the footwear upper and for a range of market applications, including military, institutional, industrial, firefighter, Emergency Services and police.



WATERPROOF



BREATHABLE



CHEMICAL RESISTANCE



VIRAL RESISTANCE



THERMALLY STABLE



FLAME RESISTANCE

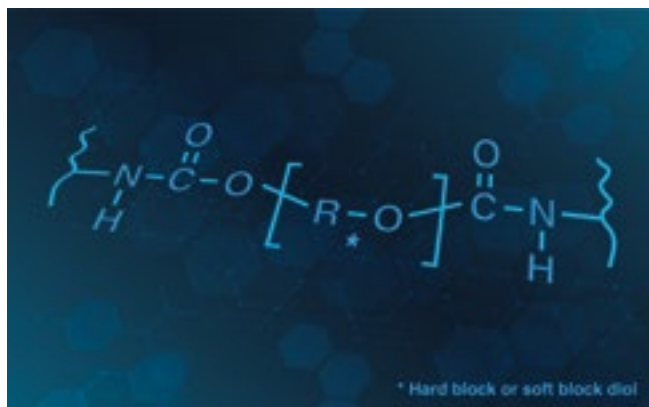


GLOBAL MARKET REQUIREMENTS

The global market for fabric laminates utilising a membrane technology is driven by different customer requirements and/or testing criteria. These are typically set out in international standards, such as those covered by ISO, EN and NFPA norms. Because of the broad range of global standards and testing criteria, no single membrane technology is able to meet all requirements. Our aim is to help our customers to compete in the global market by:

- Developing our core capabilities in membrane technology
- Engineering our own unique polymer systems designed to meet specific membrane performance requirements
- The design and development of a purpose-built plant and manufacturing facility for both polymer and membrane production.

It is this approach that enables us to offer a diverse range of membrane technologies rather than only promoting the benefits of one membrane system. Our expertise and knowledge of this technology means we know how different membrane systems perform and compare with each other. This allows us to advise you about the best membrane to meet your requirements and specifications, what is most practical for the end-use environment and with regard to any technical process issues that may arise.



PERFORMANCE BENEFITS

We acknowledge and appreciate that different customers require a range of performance benefits for a number of reasons – industry standards, market trends or the desire to advance. We have designed and developed porelle® membranes to meet a broad spectrum of properties, including:

- Chemical resistant
- Cold and high temperature resistant
- Wash and dry-clean resistant
- Steam sterilisable
- Flame and abrasion resistant
- Thermally stable
- Anti-static resistant

MEMBRANE SELECTION

Whatever your application, it is probable that we have achieved similar specifications and can advise on a membrane system that best meets your requirements. The porelle® membranes range has been engineered for extreme, high performance and to deliver waterproof consistency, durability and protection. All of our membranes are independently monitored by our Quality Assurance Department, which is ISO 9001 certified. If you think our technical capabilities might fit your requirements, contact us for more details.

porelle®
membranes

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