



Technical Absorbents (TAL) is part of Bluestar Fibres Company Limited, a subsidiary company of China National BlueStar (Group) Company Limited, who are wholly-owned by ChemChina. Since inception in 1993, TAL has endeavoured to offer a truly world-class level of innovation, development and supply of super absorbent products, precisely tailored to meet its customers' requirements.



Unsurpassed levels of service and support, coupled with continual investment in its core technology, have helped take the company to the forefront of the super absorbents industry. This has been recognised externally with ISO 9001:2008 Quality Management System, ISO 14001:2004 Environmental Management System and BS OHSAS 18001:2007 Occupational Health and Safety Management System accreditations. It is also a winner of the UK Queen's Award for Export.



Revolutionary water-blocking technology

Local Agent

Technical Absorbents provides extremely high levels of innovation and product development expertise to the geo-textiles market with its Super Absorbent Fibre (SAF™) technology.

The basic functionality of SAF™ is its ability to absorb up to 200 times its own weight in water, and 60 times its own weight in saline, at an extremely fast absorption rate. This key property offers an ideal way of achieving water-blocking functionality, both for short-and long-term applications. The fabric initially absorbs water so that the membrane swells. At a certain point, this then becomes an impermeable barrier to water.

GeoSAF™ is aimed specifically at the geo-textiles market and is the key component for a range of geosynthetic membrane fabric technologies – which can be adapted into a wide range of formats – that are used by many industries requiring water-sealant solutions. Such fabrics are designed to act as a barrier to water and help alleviate the problems of flooding.

Handling and installation of these tailored GeoSAF™-based fabrics is truly state of the art given the versatility of this technology.



What is SAF™?

SAF™ is an extremely effective and versatile super absorbent technology. It is available in a wide range of formats for various markets and applications, and has been developed to provide high rates of saline and water uptake.

As a fibrous super absorbent, it allows for ease of handling, giving rise to exceptionally substantive and even distribution profiles within final fabric construction. As such, geosynthetic membrane fabrics incorporating this technology offer truly unparalleled levels of water-blocking performance.



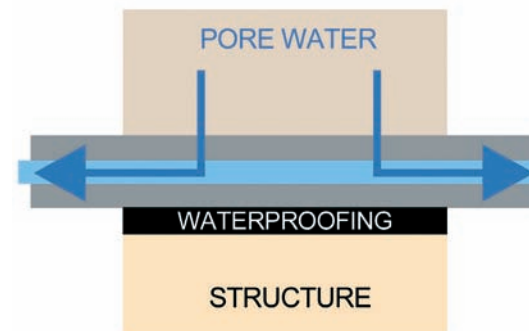
Advantages of GeoSAF™-based geo-textiles

- Substantive and compact membrane fabrics
- Faster absorption and blocking rates
- Ease of manufacture
- Lightweight
- Easy to handle and install
- Self-sealing
- Require no additional edge protection or bonding
- Less shedding and wastage

Applications:

These fabrics have the ability to separate, filter, reinforce, protect and/or drain, and offer many advantages that are extremely important to demanding civil engineering projects. The fact that they can be supplied in rolls is also a huge benefit when being used on large-scale projects, including:

- Deep construction insulations
- Tunnels
- Roads and motorway construction (sub-structure)
- Gaskets
- Rain water storage
- Reservoir sealing
- Building insulations.



Principle of water-blocking membrane technology

