

## Technical Datasheet

The Allershield® range is a family of breathable and machine washable multi-layer, PP laminates, comprising nonwoven spunbond and a high filtration microfibrous, meltblown membrane, specifically engineered to be used as allergy relief bedding. The Allershield® range carries two main products; Allershield® and Allershield® Active, which incorporates our antimicrobial additive to provide even greater protection.

Designed with comfort and protection in mind, Allershield® is up to 36 times more breathable than traditional fabrics such as poly-cottons, providing a hygienic and relieving solution to allergy sufferers. Allershield® is proven to be effective by independent testing carried out by the Institute of Occupational Medicine.

Technical Data	Test Method	Allershield®	Allershield® Active
Fabric Weight* (g/m <sup>2</sup> )	NWSP 130.1	53	53
Machine Wash	BS 5651	12 CLP @ 40°C	12 CLP @ 40°C
Flame Retardant	BS 7175	Source 1	Source 1
Air Permeability (l/m <sup>2</sup> /sec)	NWSP 070.1	300	300
Antibacterial Inhibition	JLS Z 2801	-	Resistant to bacteria (Staphylococcus aureus)
Antibacterial Inhibition	JLS Z 2900 - 2000	-	Resistant to fungi (Aspergillus niger)
NHS Wash Procedure	BS 5651	No delamination after 20 washes Slight pilling visible after one wash, moderate pilling after three washes	

**Advantages of Allershield® over 'in-line' SMS Laminates** – Dust mite faecal pellets are friable and are typically broken down into particles <3µm in size, which are respirable and particularly associated with asthmatic reactions. Allershield® utilises a very high weight of meltblown filtration membrane, much higher than conventional 'in-line' SMS laminates. Hence Allershield® has a far superior filtration performance as demonstrated below:

**Advantages of Allershield® over Air Barrier Fabrics** – Bedding covers produced using traditional air barrier fabrics & films do not allow air to pass through the fabric. This causes a 'ballooning' effect when the user puts his head on the pillow resulting in allergens being expelled through stitch holes, zips etc. As Allershield® allows air to pass freely through the body of the fabric, filtering out the allergens in the process, this does not happen.

DIN 71460-1 Using A2 test dust (ISO12103-1 Arizona Road Dust)	Particle Hold-out Efficiency (%)			
	0.5µm	1.0µm	>3.0µm	>5.0µm
Unwashed	90	92	99.5	>99.5

### All products are manufactured under BS EN ISO 9001.

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