



Fact Sheet: Smart Textiles

Introducing sensing solutions for medical support surfaces from Dartex®. This innovative technology developed exclusively for use with Dartex® coated textiles, offers multiple sensing solutions for monitoring the patient condition in real time.

How does it work?

Utilizing the latest knitting technologies, the sensors are woven into the textile and protected with industry trusted Dartex® polyurethane.

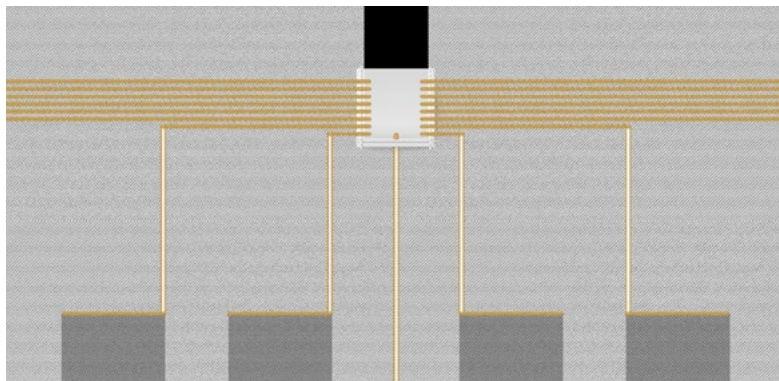
When integrated with the bed system, vulnerable pressure points can be monitored and the sensors alert the patient and/or carer to reposition, either physically or mechanically.

This eliminates the need for unnecessary interventions by the caregiver.

Sensors can be configured to monitor; incontinence, humidity, movement, pressure and more...

KEY BENEFITS

- All key support surface properties maintained – functions as a support surface for avoidable pressure injury prevention
- Eliminates the need for additional medical devices
- No additional layers between patient and support surface – sensors encased in the construction of the fabric
- Manufacturing process fully industrialized
- Technology compatible with every Dartex® coating option.



Recommended cleaning

Always follow the manufacturer's cleaning instructions.

Refer to Trelleborg Cleaning Guidance for Support Surfaces for additional information.

Why choose Trelleborg Engineered Coated Fabrics?

We are specialist manufacturers of polyurethane-coated technical textiles for medical applications.

All PU fabrics provide a fluid-proof, virus-proof barrier for infection control. Our

industry leading Dartex® range combines unique stretch and recovery capabilities with breathable, high quality PU coatings, to provide pressure redistribution¹ around the world.

Contact our technical sales team for specifications and more information:

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📄 TrelleborgHM 🌐 Trelleborg-healthcare-&-medical

References:

¹ Haxby, R; Pearce, K; Turton, T; Scott, I; Williams, C. (2019). Support Surface Cover & Core: Working Together in Sweet Harmony. Available for download <https://www.trelleborg.com/en/engineered-coated-fabrics/industries/healthcare-and-medical>

² Laboratory tests show no change to breathability when used on Dartex® Endurance coating, compared to zero levels of breathability when screen printing is used on any coating. Tested to internal specifications.

	4-way stretch No delamination
	Advanced chemical resistance For increased lifetime of support surface
	Anti-Microbial Tested to AATCC Test Method 30 (Aspergillus niger) and ISO 22196 (k. pneumoniae)
	Bio-compatibility (ISO10993-5) Cytotoxicity = < Grade 1 (ISO10993-10) Skin Irritation – classed as non-irritant; Skin Sensitisation – considered to be non-sensitiser
	Eco flame retardant: Crib 5 BS7175, sources 0, 1, 5 conforms when used with a suitable combustion modified foam CTB117-2013 – Class B
	Fungistatic Contains an anti-fungal / anti-microbial agent to control microbial deterioration; The products do not contain any nano materials
	MVP Breathable
	Waterproof Water penetration resistance/ Hydrostatic head (kPa) 35 minimum; typical 100 (BS3424-26)
	Weldable Nylon fabric options available
	Wipe clean For infection control
	UV Printable Innovative, no odour ink that does not crack when stretched and remains breathable in comparison to screen printing ²