



Fact Sheet: Tourniquets

Skin-safe, durable coated textiles for use in the manufacture of ambulatory and pneumatic tourniquets.

About Tourniquets

Tourniquets are non-invasive medical devices that are used on patient limbs to restrict blood flow in a specific area in order to achieve a bloodless surgical field.

A tourniquet often has tubing inserted to allow air to pass through, which inflates the cuff and restricts the blood flow. There will also be a plastic insert used to give the cuff strength. Types of cuff are:

Ambulatory Tourniquet

The key feature of this cuff is that there should be no air loss within the system, as high pressure is required to ensure the patient has the best possible chance of surviving transport.

Pneumatic Tourniquet / Surgical Tourniquet

These can be single or dual-bladder cuffs designed to create a bloodless surgical field by applying pressure to blood flow

in a limb. They are used during surgical procedures, quite often for orthopedic surgery, such as knee replacements. They can also be used for patient rehabilitation.

KEY BENEFITS

Trelleborg Engineered Coated Fabrics has manufactured technical textiles for tourniquet applications for many years. We understand what is required to help keep patients safe during the creation of a bloodless surgical field:

- Waterproof, fluid-proof barrier for infection control
- Wipe clean for reusability
- Skin-safe for surgical procedures
- Fit for purpose: meets all required medical device standards
- Weldable
- Hook & Loop compatible.

Global Standards

EUROPEAN & UK TOURNIQUET CUFF STANDARDS

Tourniquet cuffs in the UK are classified as a Class I medical device, and must comply with ISO 13485.

In the EU, tourniquet cuffs must comply with the EU Medical Device Regulations (MDR).¹

US TOURNIQUET CUFF STANDARDS

In the US, pneumatic / surgical tourniquets are classified and regulated as a Class I medical device under 21 CFR 878.5910 "Pneumatic Tourniquet" which requires the manufacturer to demonstrate the device is safe and effective for use.

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 redistribution² around the world.

Contact our technical sales team for specifications and more information:

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	Antimicrobial Additive can be included to provide antimicrobial properties as per AATCC Test Method 30 (Aspergillus niger) and ISO 22196 (k. pneumoniae)
	Breathable
	Fungistatic Additive can be included to protect polyurethane coating
	Low stretch No delamination
	UV Printable Innovative, no odour ink that does not crack when stretched – 5 colour print process
	Waterproof Fluid proof barrier for infection control
	Weldable Polyester and Nylon fabric options available
	Wipe clean For infection control

References:

¹ Available for download <https://eorna.eu/wp-content/uploads/2020/09/EORNA-Best-Practice-for-Perioperative-Care-Edition-2020.pdf>

² 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>