

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has local presence in over 40 countries around the world.







HEALTHCARE & MEDICAL

Surgical & Treatment Cuffs

Trelleborg Engineered Coated Fabrics manufactures a range of technical textiles for specialist cuff uses in Healthcare & Medical applications. This includes surgical, treatment and rehabilitation uses.



Speak to our team for more information:

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Fact Sheet: Blood Pressure Cuffs

Skin-safe, durable coated textiles for use in the manufacture of reusable blood pressure cuffs.

About Blood Pressure Cuffs

Blood Pressure Cuffs (BP Cuffs) form an essential component of a sphygmomanometer, or blood pressure monitoring device. When attached to the patient's arm, the cuff needs to be easily inflatable to collapse and then release the artery in a controlled manner in order to accurately measure blood pressure.

Trelleborg Engineered Coated Fabrics manufactures coated fabric for:

- External cuff – hook and loop compatible
- Internal bladder – air holding fabric to allow easy inflation

We can manufacture in a range of colors and widths to help differentiate your product range; as well as allowing different size cuffs for varying patient requirements.

KEY BENEFITS

Trelleborg Engineered Coated Fabrics has manufactured technical textiles for BP Cuff applications for many years. We understand what is required for medical device manufacturers to create the ultimate reusable BP Cuff:

- Skin-safe for patient use
- Fit for purpose: meets all required medical device standards
- Weldable
- Hook & Loop compatible
- Reusable for reducing waste to landfill or incineration
- Multiple width and color options available.

Global Standards

EUROPEAN & UK BP CUFF STANDARDS

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

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

US BP CUFF STANDARDS

In the US, antimicrobial reusable BP cuffs are classified and regulated as a Class 2 medical device under regulation number 870.1120 'Antimicrobial Blood Pressure Cuff.

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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References:
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>



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 hip 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.

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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>