

Haemostats

WILLPHARMA

- SINCE 1924 -

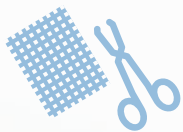
On the frontline
of technology
and experience

san
tec

Atramat
Innovation Through Experience



Willocell®[®], pliable, resorbable local haemostat comprising 100% sterile oxidised regenerated cellulose of plant origin.



Easy to apply

application is simple, fast and safe



Fast working

provides rapid and effective local haemostasis within 1 to 3 minutes



Resorbable

removeable post haemostasis or if left in completely absorbed within 7-14 days



Plant Derived

made from wood pulp, no human or animal components involved so no associated risks of viral disease transmission



Antibacterial

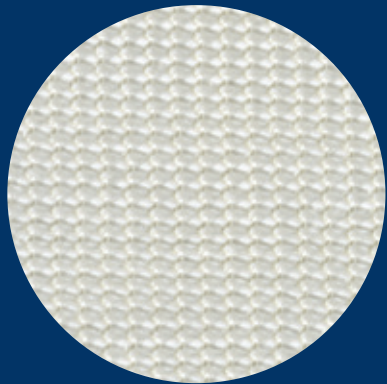
for up to 24 hours post application Willocell® produces a local acidic antibacterial environment of low pH, which also helps reduce blood loss through vasoconstriction

Willocell® uses gamma ray sterilization and is produced under ISO 13485 and CE certified; class III.

General product description

- the fabric is white with pale yellow cast and has a faint, caramel-like aroma (a slight discoloration may occur with age)
- it is strong and can be sutured or cut without fraying

Willocell® Standard



Product description

- Loosely knitted fabric ensures:
 - flexibility to conform to irregular surfaces
 - visualization of the bleeding site
- Removeable post haemostasis
- If left in post-surgery, fully absorbed

Willocell® Knit



Product description

- Designed for use in cases of heavy bleeding, specifically:
 - densely knitted fabric, 3 x greater than Willocell® Standard
 - possessing high tensile strength, 6x greater than Willocell® Standard
 - twice the thickness of Willocell® Standard allowing it to hold a suture if required

Willocell® Fibril



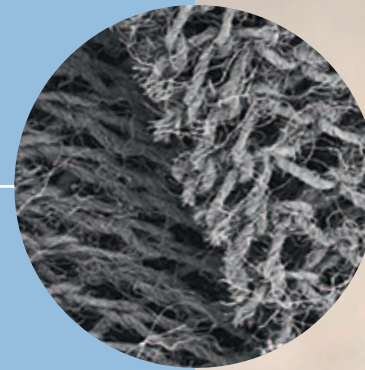
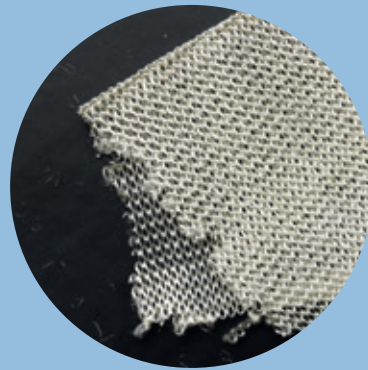
Product description

- Non-woven layered or fibril form
- For use on irregular surfaces and hard to reach areas
- Layers can be peeled off in desired amounts prior to application
- On application high surface area in contact with bleeds for rapid haemostasis

Regenerated Quality

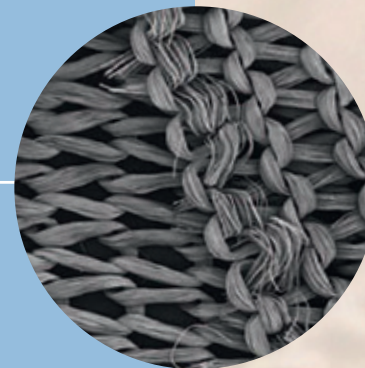
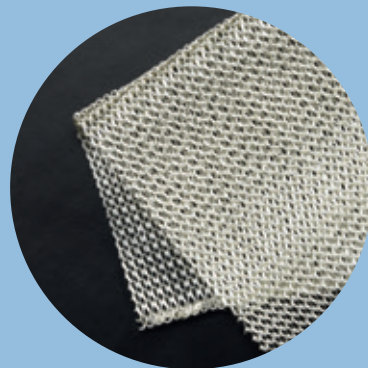
Willocell® absorbable haemostats are sterile absorbable knitted fabrics prepared by controlled oxidation of regenerated cellulose.

Comparison of non-regenerated and regenerated oxidised cellulose haemostatic agents.*



Non regenerated

- Made from cotton cellulose
- Natural 'unorganised' fibres with non-uniform diameters
- Coarse fabric texture
- Absorption time 12-72 hours
- Post haemostasis recommendation, leave in
- Product Quality, prone to friability



Regenerated

- Made from wood pulp cellulose
- Uniform fibres formed from Rayon/Viscose prior to being regenerated back into oxidised cellulose
- Silky fabric texture
- Post haemostasis recommendation, where possible remove
- If left in absorption time 7-14 days
- Product Quality, stable over time

* KM Lewis et al - European Surgery, July 2013)

Domains of Application

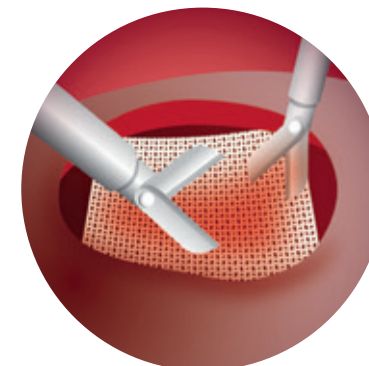
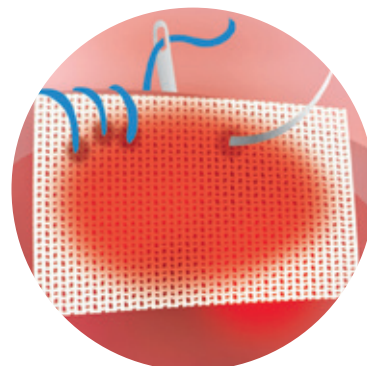
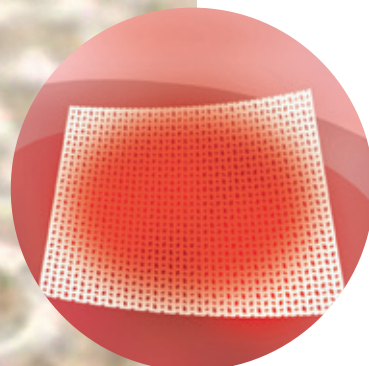
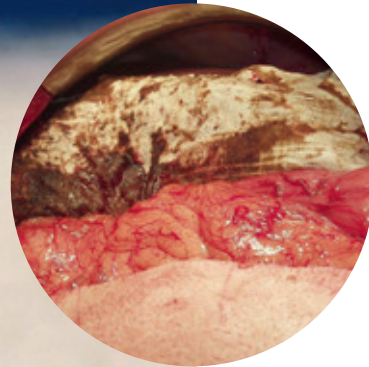
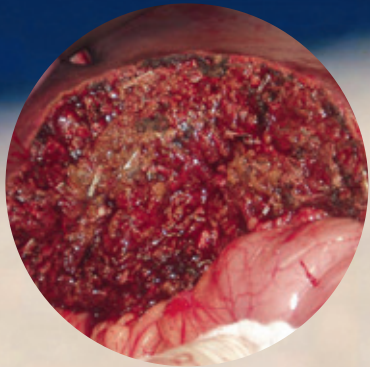
Willocell®'s wide range of applications enables it to be used in operations carried out traditionally or laparoscopically, in robotic surgery, for endoscopic operations and in day surgery procedures.

Surgical disciplines include:

- general and digestive surgery
- plastic surgery
- orthopaedic surgery
- obstetrics and gynaecology
- urology
- stomatology
- neurosurgery
- cardiothoracic surgery
- orthodontics
- endoscopic procedures and other surgical operations

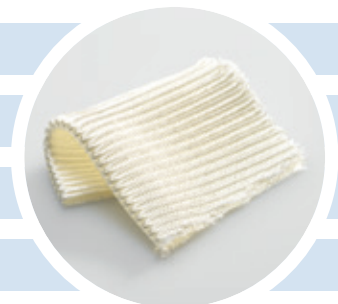
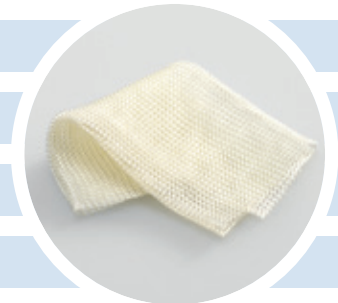
How to use

- only use as much Willocell® as necessary for haemostasis
- apply dry as a thin film directly onto a dried bleeding area or organ
- hold firmly in place or secure with a suture until bleeding has stopped
- if required to tamponade through packing, always remove after haemostasis
- Willocell® may be left in situ when necessary, however it is advisable to remove following haemostasis
- when left in situ remove any excess haemostat before closure to aid absorption



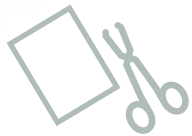
Product Specifications

MPN	Description	Size	Box quantity
25016NL-12	Willocell® standard	5 x 1.25 cm	12
25018NL-12	Willocell® standard	5 x 7.5 cm	12
25019NL-12	Willocell® standard	5 x 35 cm	12
25020NL-12	Willocell® standard	10 x 20 cm	12
25021NL-10	Willocell® knit	2.6 x 2.6 cm	10
25022NL-12	Willocell® knit	7.6 x 10.2 cm	12
25023NL-10	Willocell® knit	15.2 x 22.9 cm	10
25024NL-10	Willocell® knit	5.1 x 10.2 cm	10
25030NL-10	Willocell® fibril	2.6 x 5.1 cm	10
25031NL-10	Willocell® fibril	5.1 x 10.2 cm	10
25032NL-10	Willocell® fibril	10.2 x 10.2 cm	10





Willospon® , a sterile absorbable gelatin sponge with excellent haemostatic properties.



Easy to use

- ready for immediate use
- can be cut to size
- applied dry or wet with saline



Absorbency

- absorbs up to 30 times its own weight resulting in slight swelling
- if left in situ completely absorbed within 3-4 weeks leaving no residue



State of the Art

- latex and Phthalates free
- pharmaceutical gelatin with uniform porosity



Tolerability

- nontoxic, no reported allergic reactions or other side effects to date
- purified BSE-free
- neutral pH



Time saving

- reduces the time of surgical intervention

Willospon® is double packed, gamma sterilized at 2,5Mrad (25 kGy) and produced under ISO 13485 and CE certified; class III.

Range and Characteristics

Willoston®

Product description

- sterile absorbable sponges, used for controlling oozing bleedings when conventional haemostasis is tough to realise and when the use of non-absorbable material is undesirable
- double packed for operating theatre cleanliness, the final packaging is presented in ready-to-use form to the surgeon, who can take it with dry sterile gloves and/or instruments
- may be directly applied to the wound using pressure

Willoston® Standard



Willoston® Special



Willoston® Tampon

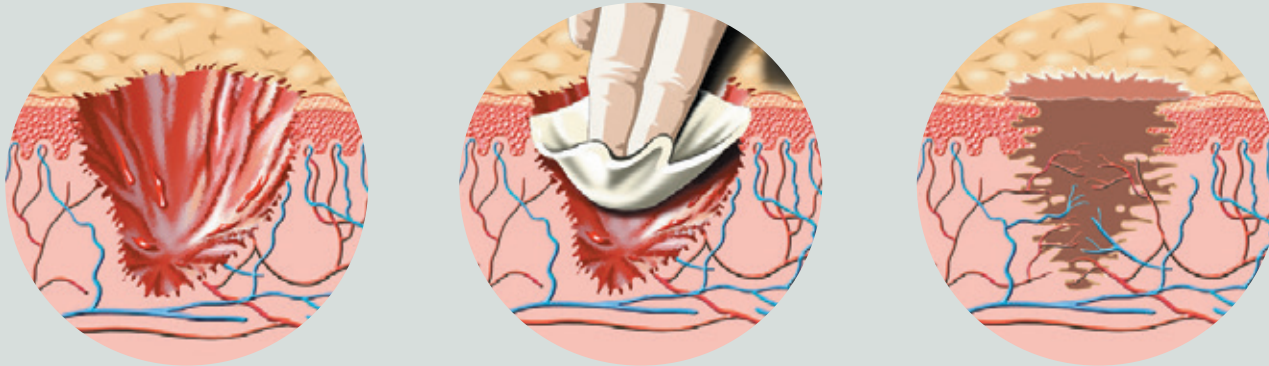


Willoston® Dental



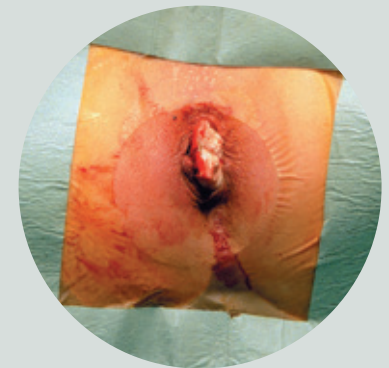
How it works

The uniform porosity of Willospon® sponge creates a favourable environment for platelet activation and aggregation when directly applied to the bleeding surface. This mechanism of action produces a matrix at the site of bleeding, activating the extrinsic clotting pathway which allows the clotting to occur. Once this process is underway, absorption takes place gradually, hygienically and above all safely.




Domains of Application

- General surgery
- Neurosurgery
- Traumatology / orthopaedic surgery
- ENT surgery
- Cardiothoracic surgery
- Dental surgery / oral facial surgery
- Proctological surgery
- Gynaecology
- Adrenaline-saturated Willospon® can even be applied in stemming acute bleeding in ear surgery.



Product Specifications

MPN	Description	Size	Quantity
20925NL-20	Willoston® Standard	8 x 5 x 1 cm	20
20945NL-20	Willoston® Special	8 x 5 x 0.1 cm	20
21005NL-16	Willoston® Tampon	8 x 3 cm Ø	16
20966NL-50	Willoston® Dental	1 x 1 x 1 cm	5 x 10



Regulatory Information

Willoston®

Identification and traceability:

Each Willoston® has an UDI code and a lot number.

Storage:

between 15 and 25 °C, store dry and out of direct sunlight.

Sterile:

gamma-irradiation; cannot be re-sterilized.

Single-use device**Contra-indications, warnings and side-effects:**

See Instructions for Use.

CE-marked:

medical device class III according to the directive 93/42/EEC.

Compliant with applicable standards and regulations**Quality:**

Will-Pharma quality management system is certified ISO 13485:2016.

Willoston® is a registered trademark of Will-Pharma.

Manufacturer:

Will-Pharma BV, Beechavenue 6, 1119 PT Schiphol-Rijk, The Netherlands

Document reference:

Willo-BRO-Rev1

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Willocell®

Identification and traceability:

Each Willocell® Absorbable Haemostat has an UDI code and a lot number.

Storage:

between 15 and 25 °C, store dry.

Sterile:

gamma-irradiation; cannot be re-sterilized.

Single-use device**Contra-indications, warnings and side-effects:**

See Instructions for Use.

CE-marked:

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For more product information please contact Santec Medicalprodukte GmbH

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Distributed by Santec Medicalprodukte GmbH

Santec Medicalprodukte GmbH

Babenhäuser Straße 45, 63762 Großostheim / Germany

Phone: +49 6026 999203-0 Fax: +49 6026 999203-29

info@santec-medical.de

www.santec-medical.de

Internacional Farmacéutica S.A. de C.V.

Carreteraco 44, Col. Parque San Andres, Del. Coyoacan,

Ciudad de Mexico, CP 04040. MEXICO.

Phone +52 55 54841700

customer.care@atramat.com

www.atramat.com