

# WOUNDCLOT®

Advanced Bleeding Control™



**Effective Bleeding Control in Mild, Moderate,  
and Severe Bleeding**

NEXT GENERATION HEMOSTATIC GAUZE

Life-threatening bleeding | Lacerations and avulsions | Abrasions | Soft-tissue injuries  
Operative and post-operative bleeding | Traumatic injuries

## Indications

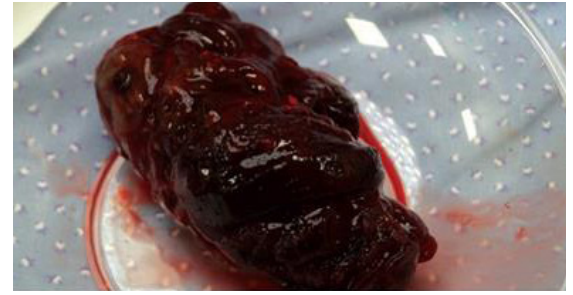
for Use

WoundClot® Hemostatic Gauze is an FDA cleared, next generation hemostatic gauze engineered to be effective in the management of mild, moderate, and severe bleeding.

WoundClot® is also effective in the temporary management of severe bleeding during surgical procedures as well as postoperative and donor-site bleeding.



*Converts WoundClot® Gauze to gel*



*WoundClot® Hemostatic Gauze*

## Mechanisms

of Action

When WoundClot® gauze is applied to the site of bleeding, it rapidly converts from a dry flexible gauze to a thick, tenacious, expanding 3D gel matrix. This stable, strong, and pliant gel structure enables rapid and stable hemostasis to be achieved utilizing multiple mechanisms of action.

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### Absorption:

WoundClot®'s 3D gel matrix absorbs up to 2,500% of its weight in blood and remains actively absorbent for up to 24 hours.

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### Adhesion:

WoundClot®'s pliant 3D gel matrix adheres to surrounding tissues in the wound and will not be dislodged by patient movement, wound manipulation, or high-pressure bleeding. WoundClot® is easily removed without causing rebleeding.

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### Aggregation:

WoundClot®'s 3D gel matrix enables the concentration of platelets, red blood cells, and clotting factors, creating an environment conducive to clotting.

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### Activation:

WoundClot®'s advanced functional molecular groups stimulate the coagulation process by converting Plasma Thromboplastin Antecedent or PTA (XI) and Hageman (XII) clotting factors from inactive to active (XIa and XIIa).

Additionally, WoundClot® Hemostatic Gauze is effective in patients on anticoagulant/antiplatelet therapy and is effective in patients in Coagulopathy. WoundClot® does not require the application of manual pressure to be effective. WoundClot® has a high safety profile and can be used anywhere on the body. Moreover, this hemostatic gauze requires little to no training to utilize effectively.



*2 minutes post application*



*6 minutes post application*



*8 minutes post application*

# Commonly Asked Questions

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## **What is WoundClot® made from?**

WoundClot® is made from cellulose, a natural fiber product. WoundClot® is the only Non-Oxidized, Non-Regenerated Cellulose Structure (NONRCS) product in the world. Other hemostatics made from cellulose are manufactured utilizing an obsolete method that breaks down cellulose by oxidation, greatly decreasing the product's ability to absorb blood, adhere to wound surfaces, and create an environment that is conducive to achieving hemostasis.

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## **What is the active ingredient in WoundClot®?**

WoundClot® is made from cellulose, a natural fiber product. WoundClot® is the only NONRCS product in the world. Due to its unique patented manufacturing process, WoundClot® does not require a "active ingredient". The material itself is engineered to be inherently hemostatic. Other hemostatics are made using a synthetic or natural substrate impregnated with an active ingredient like Kaolin, Chitosan, Collagen, Silica, or Thrombin.

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## **How is WoundClot® different from Oxidized Regenerated Cellulose (ORC) Hemostatics?**

ORC hemostatics are based on more than 75+ year-old technology. These products have a tendency to stick to gloved hands and instruments, not the intended wound surfaces. Some ORCs are FDA Class III surgical Implantable products, but their Instructions for use indicate they should be removed whenever possible due to the increased risk of infection or adverse reaction. ORCs are not designed to be used if persistent or heavy bleeding is occurring. WoundClot® is the world's only NONRCS and is highly absorbent (up to 2,500% of its weight in fluid), highly adherent to wound surfaces—even in high pressure bleeding—and is actively absorbent for up to 24 hours in the wound. WoundClot is specifically engineered to effectively manage mild, moderate, and severe bleeding.

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## **How is WoundClot® different from mineral-based hemostatics?**

Mineral-based hemostatics are comprised of a non-resorbable, non-woven fiber impregnated with an active ingredient like Kaolin. Kaolin is an inorganic fine, white clay powder, resulting from the natural decomposition of other clays or feldspar. These products utilize a single mechanism of action: activation of Factor XII (Hageman Factor). They require the application of intense manual pressure for at least 3-5 minutes in order to be effective. WoundClot® utilizes multiple mechanisms of action: Rapid fluid absorption, adherence and expansion in the wound, aggregation of platelets, Red Blood Cells (RBCs), and clotting factors, creation of an environment conducive to clotting, as well as activation of Factors XI and XII. WoundClot® also is actively absorbent for up to 24 hours in the wound.

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## **How is WoundClot® different from Chitosan-based hemostatics?**

Chitosan-based hemostatics are comprised of a non-resorbable, non-woven fiber impregnated with the active ingredient, Chitosan. Chitosan is a sugar that is obtained from the hard-outer skeleton of shellfish, including crab, lobster, and shrimp. These products utilize a single mechanism of action: attracting negatively charged RBCs with its positively-charged active ingredient. WoundClot® utilizes multiple mechanisms of action: Rapid fluid absorption, adherence and expansion in the wound, aggregation of platelets, RBCs, and clotting factors, creation of an environment conducive to clotting, as well as activation of two factors, XI and XII. WoundClot® also is actively absorbent for up to 24 hours in the wound.

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## **How does WoundClot® work?**

Unlike any other hemostatic product available today, WoundClot® has multiple mechanisms of action. When WoundClot® contacts blood, it converts into a thick, tenacious, expanding gel, adhering to wound surfaces. WoundClot® does not require the application of manual pressure to be effective. WoundClot® is highly absorbent and will absorb up to 2,500% of its weight in fluid. It also remains actively absorbent for up to 24 hours in the wound. The product is engineered so it will activate two key factors. Additionally, WoundClot® has a high safety profile, can be used anywhere on the body, and requires little to no training to utilize effectively.

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## **Does WoundClot® Hemostatic Gauze work on the clotting cascade?**

Yes, it is one of the mechanisms of action WoundClot® utilizes to achieve rapid hemostasis. WoundClot® is engineered to activate Factors XI and XII.

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## **Is WoundClot® a Class III, surgical implantable here in the US?**

WoundClot® is a FDA cleared, hemostatic that is indicated for the effective control of mild, moderate, and severe bleeding, as well as bleeding in operative, post-operative, and donor sites. It is cleared to be in a wound for up to 24 hours and must be removed prior to closure. WoundClot® is also a CE Class III Surgical Implantable device in the EU and other places around the world, for sizes up to 4" x 4".

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## **How easily is WoundClot® removed from wounds?**

WoundClot® is easily removed from a wound by simply removing the clot. Rebleeding will not occur and any remaining gel can be easily irrigated out of the wound.

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## **What is the shelf life of WoundClot®?**

Currently, WoundClot® Hemostatic Gauze has a 4-year shelf life.

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# WOUNDCLOT®

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## WOUNDCLOT® IS AVAILABLE IN THESE SIZES:

WoundClot Hemostatic Gauze 4" x 4" (10 cm x 10 cm) FDA	WoundClot Hemostatic Gauze 2" x 2" (5 cm x 5 cm) FDA	WoundClot Hemostatic Gauze 3" x 8" (8 cm x 20 cm) FDA
WoundClot Hemostatic Gauze 3" x 39" (8 cm x 100 cm) FDA	WoundClot Hemostatic Gauze 8" x 12" (20 cm x 30 cm) FDA	WoundClot Hemostatic Gauze Twin Pack 2" x 2" (5 cm x 5 cm) FDA

Last Updated: 1 July 2019