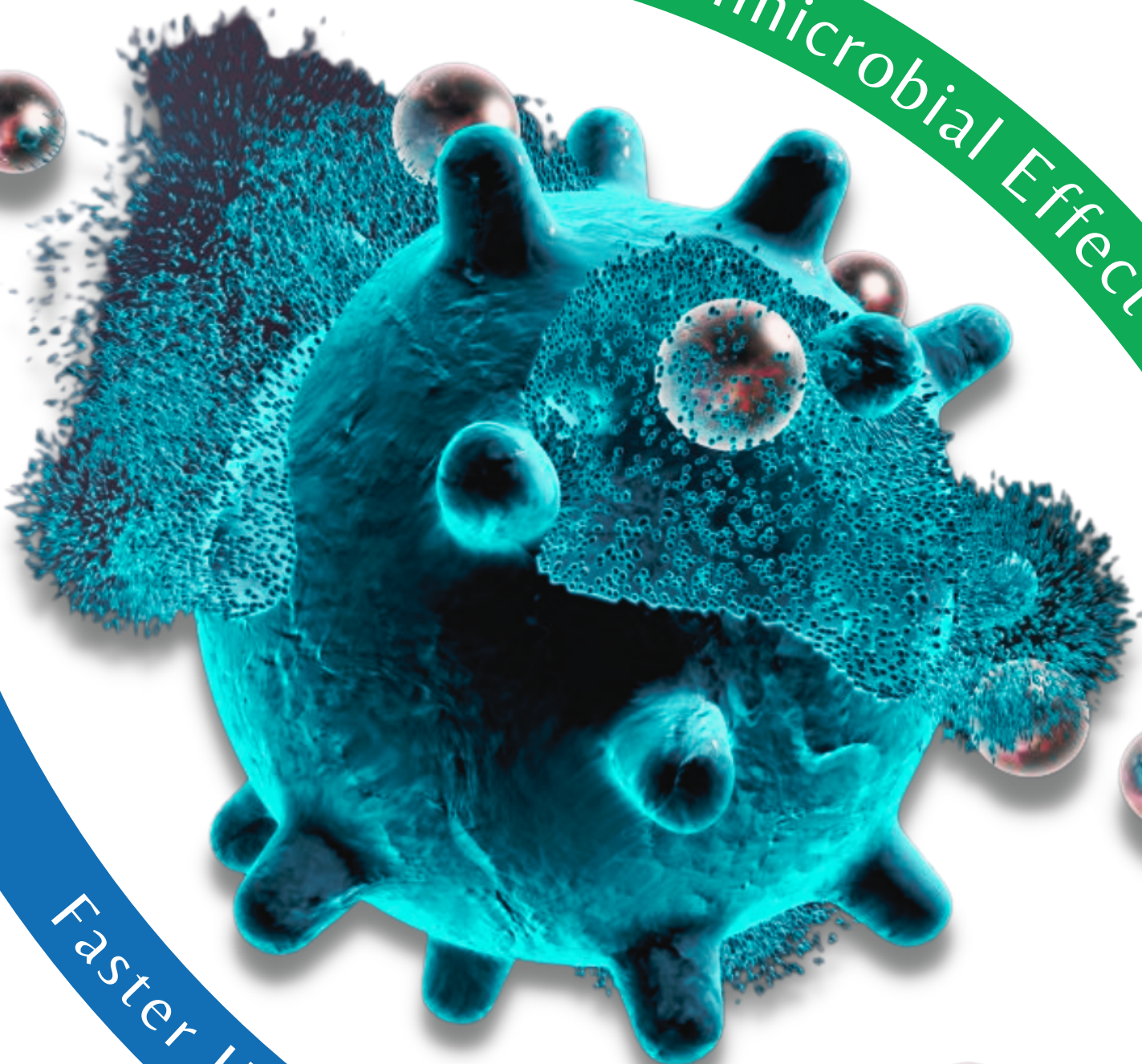




Anziam Bio

Broad Spectrum Antimicrobial Effect



Faster Healing of Infected Wounds

**Kotszr**<sup>TM</sup>

Simplifying Wound Care

# Kotszr™ Antimicrobial Silver Alginate Dressings



- *Kotszr*<sup>CA+Ag</sup> is an antimicrobial calcium alginate wound dressing containing silver.
- *Kotszr*<sup>CA+Ag</sup> dressing has shown to have broad spectrum antimicrobial activity due to presence of silver ions.
- Its reinforced properties promote intact removal, reducing trauma on removal with minimal residues in the wound bed.
- *Kotszr*<sup>CA+Ag</sup> is designed to promote wound healing through its high absorption capacity, moist wound healing environment and antimicrobial nature.

## Key Features



**Antimicrobial**



**High Absorbency**



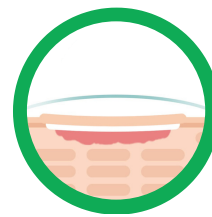
**Intact Removal Due to Wet Strength**



**Reinforced**

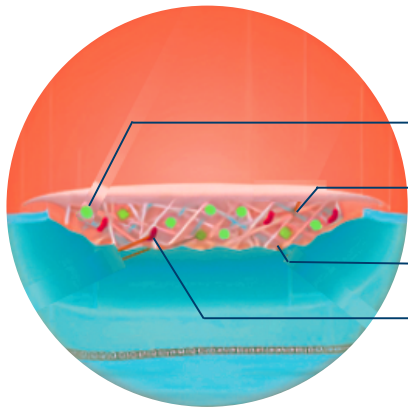


**Moist Wound Environment Promotes Healing**



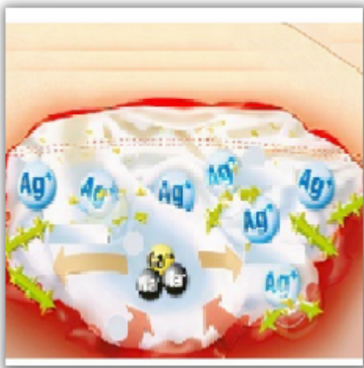
**Enhanced Conformability**

# What Is It?



- Silver ions are released from silver-containing fibres to kill microorganisms
- Closely entangled reinforcing fibres facilitate intact removal
- Soft comfortable alginate fibres absorb wound exudate & conform to the wound bed
- Microorganisms

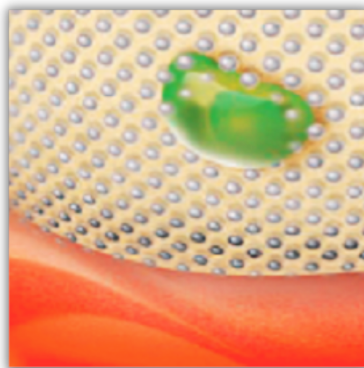
# Mechanism of Action



## Ion Exchange

Mode of Action of *Kotszr* Dressing:

- Excess exudates from the wound are absorbed.
- Gel formation by ion-exchange.
- kills the pathogens in the wound bed by releasing Silver Ions.



## Antimicrobial Effectiveness

A highly soluble form of silver that:

- Kills a broad spectrum of pathogens, including MRSA and VRE.
- Helps control wound odour.
- Provides a sustained antimicrobial barrier.



## Soft-Gelling Absorbency

The unique dressing integration creates a soft gelling formula that:

- Conforms to the wound and is soft and pliable.
- Assists in controlling minor bleeding.
- Provide excellent exudate management with greater absorbency.



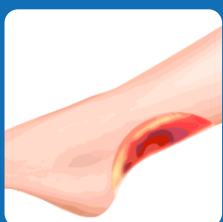
## One-Piece Removal

The dressing integration and formula delivers high wet strength, which:

- Allows for use in wounds with undermining or tunnels.
- Facilitates easy removal of moist dressing.
- Ensures moist environment for optimal wound healing.

# Indications

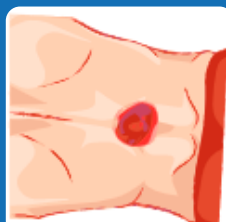
Indicated for use on wounds that are Infected or are at Risk of Infection.



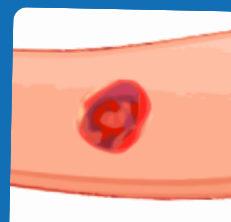
Venous Leg Ulcer



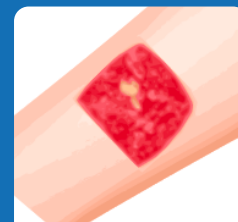
Burn



Pressure Ulcer



Cavity Wound



Donor Site

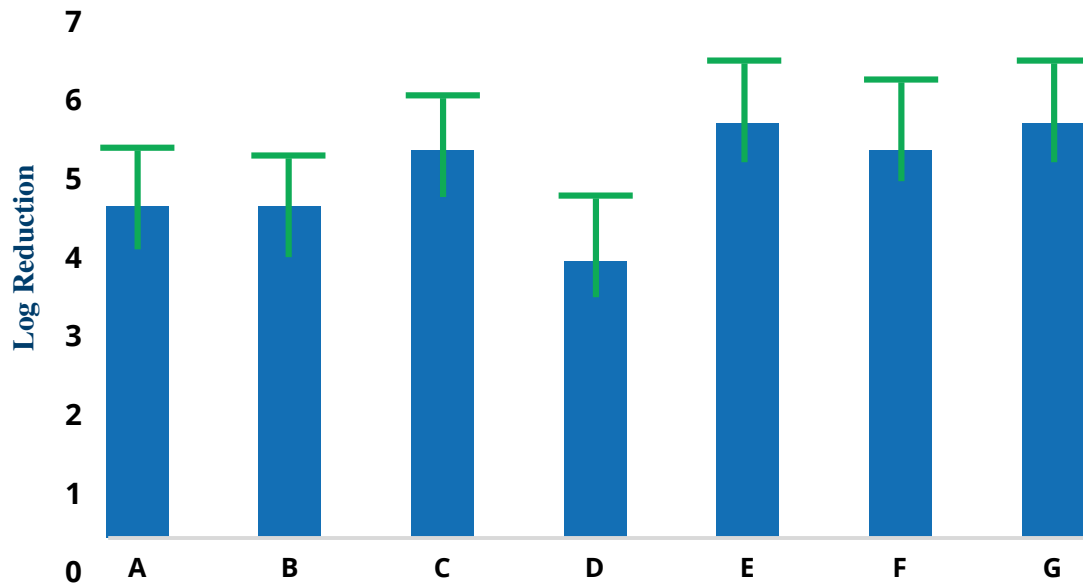


Ulcer

- Superficial or Deep Wounds
- Mild to Moderate Bleeding Wounds
- Moderately and Highly Exuding Wounds

# In Vitro Data Analysis

## ANTIMICROBIAL EFFICACY



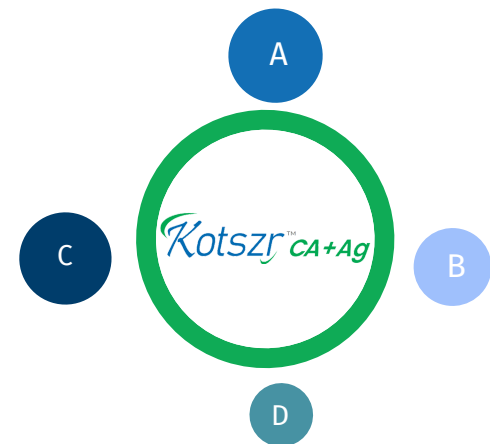
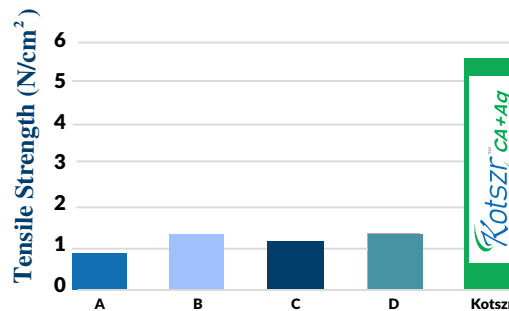
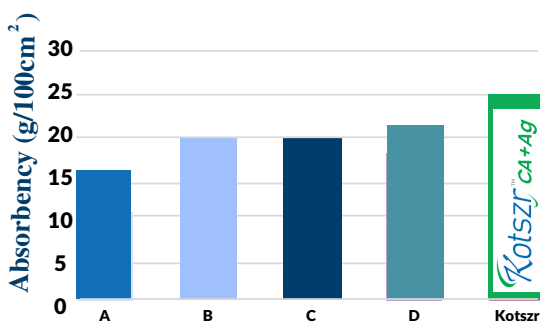
A - *Enterococcus hirae*, B - *Bacillus subtilis*, C - MRSA, D - *Enterococcus faecalis*, E - *Pseudomonas aeruginosa*, F - *Escherichia coli*, G - *Acinetobacter baumannii*

- **Kotszj<sup>TM</sup> CA+Ag** dressings demonstrate efficacy against a wide range of pathogens.

## ABSORBENCY

## TENSILE STRENGTH

## WET TENSILE STRENGTH



- Greater Absorbency
- Good Exudate Management

- High Tensile Strength
- Ease of Application

- High Wet Tensile Strength
- Pain Free Removal

A- Urgosorb® Silver/Ag Is a registered trademark of URGO Medical.  
B- ALGISITE Ag Is a registered trademark of Smith & Nephew.

C- Biatain® Ag Is a registered trademark of Coloplast.  
D- Sorbalgon® Ag Is a registered trademark of Paul Hartmann.

## REFERENCES

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2. <http://www.worldwidewounds.com/1998/june/Alginates-FAQ/alginates-questions.html>
3. Segal HC et al. The effects of alginate and non-alginate wound dressings on blood coagulation and platelet activation. Journal of Biomaterials Applications 1998;249-57.
4. Elalamy I and Robert F. Etude in vitro des effets procoagulants plaquettaires de deux pansements: Alginate pur (Algostéril) et Alginate-CMC (SeaSorb Soft), étude sur plasma riche en plaquettes. CPC France 2007.
5. Rubanov, L N; Slavnikov, I. A.; Mkanin, A J; Chemov, A A (2011): APPLICATION OF NPWT, GRAFTING AND COMPRESSION FOR TROPHIC VENOUS LEG ULCER PATIENTS. Poster presented at EWMA 2011. Brussels, Belgium, 25.05.2011.
6. van Dam, Ria (2009): The treatment of infected wounds of older patients with a silver alginate. Poster presented at EWMA 2009, Helsinki, Finland, 20.05.2009
7. Dol, Lucienne (2009): A treatment of stagnate abdominal wounds after bowel surgery. Poster presented at EWMA 2009, Helsinki, Finland, 20.05.2009.
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10. Wiegand, Ruth, Abel, Gorka, Elsner and Hipler. Influence of alginate and silver containing alginate on elastase and ROS activity as well as TNF-α concentration in-vitro. Poster presented at CPC Paris 27-29 January 2008
11. Wiegand, Heinze, Hipler. Comparative in-vitro study on cytotoxicity, antimicrobial activity, and binding capacity for pathophysiological factors in chronic wounds of alginate and silver containing alginate.
12. Case reports presented in L&R Suprasorb A+Ag PCMF.

## Why Choose Us?

- **PERFORMANCE**, significantly better in terms of absorbency.
- **STRENGTH**, helps in maintaining its structure from start to finish.
- **GENTLE**, facilitates intact removal and entire process trauma free.
- **PRICE**, with the aim to make advance wound care technologies accessible to all.

## HOW TO APPLY DRESSING?

1



Always use aseptic techniques when dressing a wound

2



Clean and irrigate the wound

3



Open the *Kotszr*<sup>™</sup> CA+Ag pouch & pull out the dressing. When folding or layering the dressing, make sure it fits the wound

4



Apply a secondary dressing and secure it

5



Irrigate with saline and gently peel off

6



Remove the dressing slowly and discard it

# Clinical Efficacy of Silver Containing Alginate



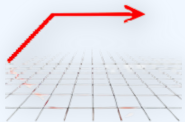
## VENOUS LEG ULCERS:

Using **Silver Alginate** for the treatment of **venous leg ulcers** has demonstrated success in a clinical study. After 15 days of the user receiving **silver alginate**, there was a measurable **improvement**.



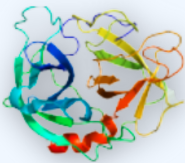
## INFECTED WOUND TREATMENT:

**Silver Alginate's** ability to **heal infected wounds** has been demonstrated. According to the study, **silver dressing** restored **bacterial balance** and **infection** was **eradicated**.



## TREATMENT OF STAGNATING WOUNDS:

Study performed on **stagnating wounds**, and it was found that treatment with **Silver Alginate** helped in **healing wounds** within weeks.



## ELASTASE MODULATION:

**Alginate** and **Silver-Containing Alginate** have been shown to **reduce elastase activity** in in-vitro studies. **Silver-Containing Alginate** had significantly **more ability** to **bind reactive oxygen** and **nitrogen species**. Another study discovered that **Alginates** have a **high affinity** for **pro-inflammatory protease elastase**.



## CENTRAL CASE STUDIES:

The use of **Silver Alginate** in **non-healing, post-operative wounds** was **well tolerated**, **wound size** and **infection** was reduced, **granulation** increased and **no increase** in **wound pain** was observed.

## Ordering Information



Product Code	Size	Items
KZCAAG0510	5×10 cm	10
KZCAAG1010	10×10 cm	10
KZCAAG1515	15×15 cm	10
KZCAAG1020	10×20 cm	10
KZCAAG1520	15×20 cm	10
KZCAAG0230	2×30 cm	5
KZCAAG3060	30×60 cm	5



**Anziam Bio**

**Anziam Bio Private Limited**

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**R&D:** Bionest Bio-incubator, Regional Centre for Biotechnology, Gurgaon- Faridabad Expressway, Faridabad-121001



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