


Tegaderm™ Alginate Ag

CARATTERISTICHE



- **Categoria:** medicazione **antisettica** ed **assorbente** a **rilascio di Ag**
- **Idroalginato con Ag**
- Per il trattamento di **ferite infette** e a **rischio di infezione**
- Ferite con alto e medio essudato 
- Crea un **ambiente umido ottimale**, che favorisce il processo di guarigione della lesione

Tegaderm™ Alginate Ag

UTILIZZO CONSIGLIATO

- Trattamento di **ferite infette** o **criticamente colonizzate**
- Su ferite ad **alto rischio di infezione**
- Ferite con **essudato da medio ad abbondante**:
 - *Piaghe da decubito*
 - *Ulcere vascolari (anche sotto bendaggi elastocompressivi)*
 - *Ulcere diabetiche*
 - *Siti di prelievo per trapianti cutanei*
 - *Lesioni traumatiche*
 - *Lesioni post-chirurgiche*
- Ferite **sanguinanti**
- Ferite **piane** o **cavitarie**



Tegaderm™ Alginate Ag

COMPOSIZIONE



Medicazione in
Alginato di Calcio
(79%) e **CMC** (15%)



Azione **assorbente**

- Alto contenuto di **Acido Guluronico** (70%)
- **Gestione essudato** della lesione
- Mantenimento **ambiente umido**
- Elevata **integrità strutturale**, anche se bagnato



Azione **gelificante**

- Derivata dalla **Cellulosa**
- **Maggiore** capacità di **assorbimento**
- Facilitata **formazione del gel**
- ↑ **compattezza** e resistenza della medicazione, che diviene maggiore in **ambiente umido**

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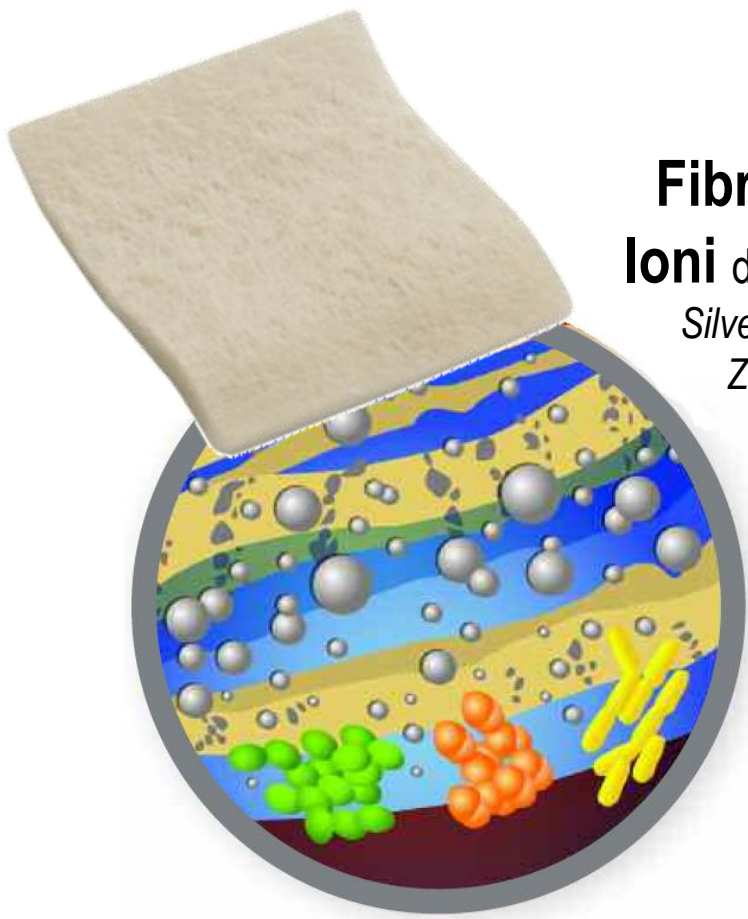
CARATTERISTICHE e BENEFICI



| CARATTERISTICA | | BENEFICIO |
|--|--|---|
| <p>Maggiore capacità assorbente rispetto a medicazioni 100% alginato o CMC</p> <p>Mantiene il corretto ambiente umido</p> | | <p>Maggiore permanenza in situ e minore rischio di macerazione della cute perilesionale</p> <p>Favorisce il processo di guarigione</p> |
| <p>Gelificante e non aderente</p> | | <p>Rimozione atraumatica ed indolore, supporta il debridement autolitico</p> |
| <p>Presenza di calcio</p> | | <p>Azione emostatica</p> |
| <p>Elevata integrità strutturale</p> | | <p>Rimozione facilitata e senza residui</p> |

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COMPOSIZIONE



Fibre a rilascio di Ioni d'Argento (6%)
Silver Sodium Hydrogen Zirconium Phosphate

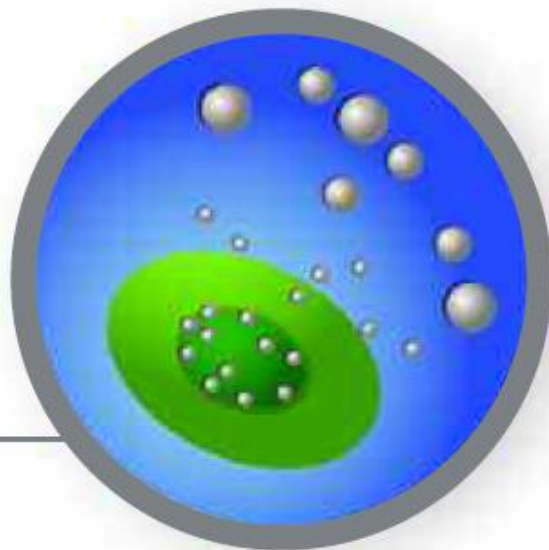


- Sintetiche e **resistenti**
- Argento **ionico** → **antimicrobico ad ampio spettro**, con efficacia comprovata contro ceppi MRSA e VRE *
- Rilascio controllato, prolungato e bilanciato di ioni Ag *
- Rilascio di Ag fino a 21 gg *
- Efficace **barriera** alla **penetrazione** dei **microrganismi** *

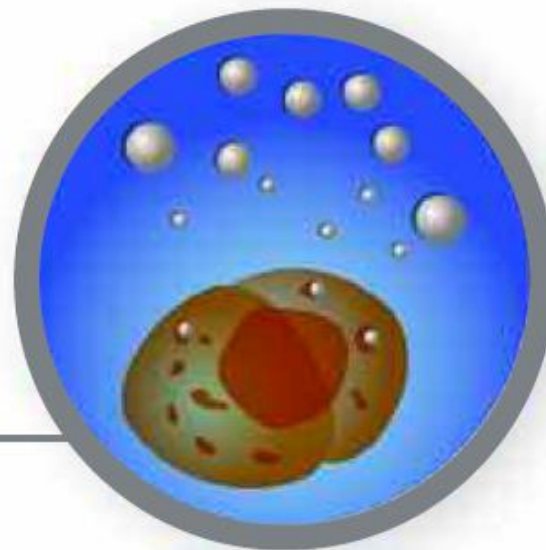
*A contatto con l'ambiente umido della lesione, il solfato di argento si dissolve liberando ioni Ag (antimicrobici ad ampio spettro *) in maniera efficace e controllata.*

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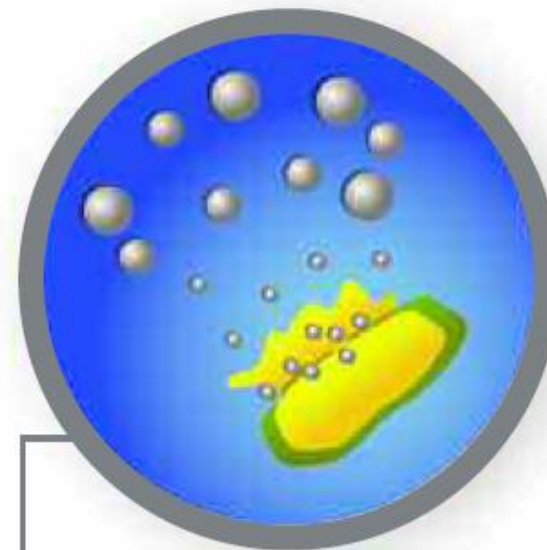
MECCANISMO D'AZIONE



Gli ioni d'argento interagiscono con il DNA dei batteri, impedendone la replicazione (2)



Gli ioni d'argento bloccano gli enzimi che controllano la respirazione dei batteri, andando letteralmente a soffocare la cellula (2,3,4,5,6)



Gli ioni d'argento danneggiano le pareti cellulari, causando lisi (7,8)

2. A.D. Russell and W.B. Hugo. Antimicrobial activity and action of silver, *Prog Med Chem.* 1994; 31:351-370.
3. P. Kaur, M. Saxena and D.V. Vadehra. Plasmid mediated resistance to silver ions in *Escherichia coli*, *Ind J Med Res.* 1985; 82:122-126.
4. J.J. Hostynek, R.S. Hinz, C.R. Lorence, M. Price and R.H. Guy. Metals and the skin, *Crit Rev Toxicol.* 1993; 23:171-235.
5. W.J.A. Schreurs and H. Rosenberg. Effect of silver ions on transport and retention of phosphate by *Escherichia coli*, *J Bacteriol.* 1982; 152:7-13.
6. P.D. Bragg and D.J. Rainnie. The effect of silver ions on the respiratory chain of *E. coli*, *Can J Microbiol.* 1974; 20:883-889.
7. J.L. Clement and P.S. Jarrett. Antibacterial silver, *Met Based Drugs.* 1994; 1:467-482.
8. P. Dibrov, J. Dzioba, K.K. Gosink and C. Hase. Chemiosmotic mechanism of antimicrobial activity of Ag⁺ in *Vibrio cholerae*, *Antimicrob Agents Chemother.* 2002; 8:2668-2670.

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SPETTRO D'AZIONE



Test in vitro dimostrano che, grazie al costante e bilanciato rilascio di ioni Ag, Tegaderm Alginate Ag risulta efficace fino a 21 gg contro i seguenti microrganismi

Aerobic

Acinetobacter sp.
Aeromonas hydrophila
Alcaligenes sp.
Bacillus cereus
Bacillus circulans
Bacillus licheniformis
Bacillus pumilus
Bacillus subtilis
Burkholderia cepacia
Citrobacter amalonaticus
Citrobacter diversus
Citrobacter freundii
Citrobacter koseri
Corynebacterium minutissimum
Enterobacter aerogenes
Enterobacter agglomerans
Enterobacter cloacae
Enterococcus avium
Enterococcus durans

Enterococcus faecalis
Enterococcus faecium
Enterococcus hirae
Enterococcus raffinosus
Escherichia coli
Escherichia vulneris
Klebsiella ornithinolytica
Klebsiella oxytoca
Klebsiella pneumoniae
Klebsiella pneumoniae subsp. ozaenae
Listeria monocytogenes
Moraxella (Branhamella) catarrhalis
Pasteurella aerogenes
Proteus mirabilis
Proteus hauseri
Proteus vulgaris
Providencia alcalifaciens
Providencia rettgeri

Providencia stuartii
Pseudomonas aeruginosa
Pseudomonas alcaligenes
Pseudomonas fluorescens
Pseudomonas luteola
Pseudomonas stutzeri
Salmonella montevideo
Salmonella typhimurium
Serratia marcescens
Staphylococcus aureus
Staphylococcus epidermidis
Staphylococcus haemolyticus
Staphylococcus hominis
Staphylococcus lugdunensis
Staphylococcus saprophyticus
Staphylococcus schleiferi
Staphylococcus xylosus
Streptococcus mitis
Streptococcus pyogenes

Anaerobic

Bacteroides fragilis
Clostridium clostridioforme
Clostridium perfringens
Clostridium ramosum
Peptostreptococcus anaerobius
Tissierella praeacuta

Yeast and Fungi

Aspergillus fumigatus
Aspergillus niger
Candida albicans
Candida glabrata
Candida krusei
Candida tropicalis
Saccharomyces cerevisiae

Antibiotic-Resistant

(both aerobic and anaerobic)

Enterococcus faecalis (MDR)
Enterococcus faecium (VRE)
Staphylococcus aureus (MRSA)
Staphylococcus epidermidis (MRSE)
Stenotrophomonas maltophilia

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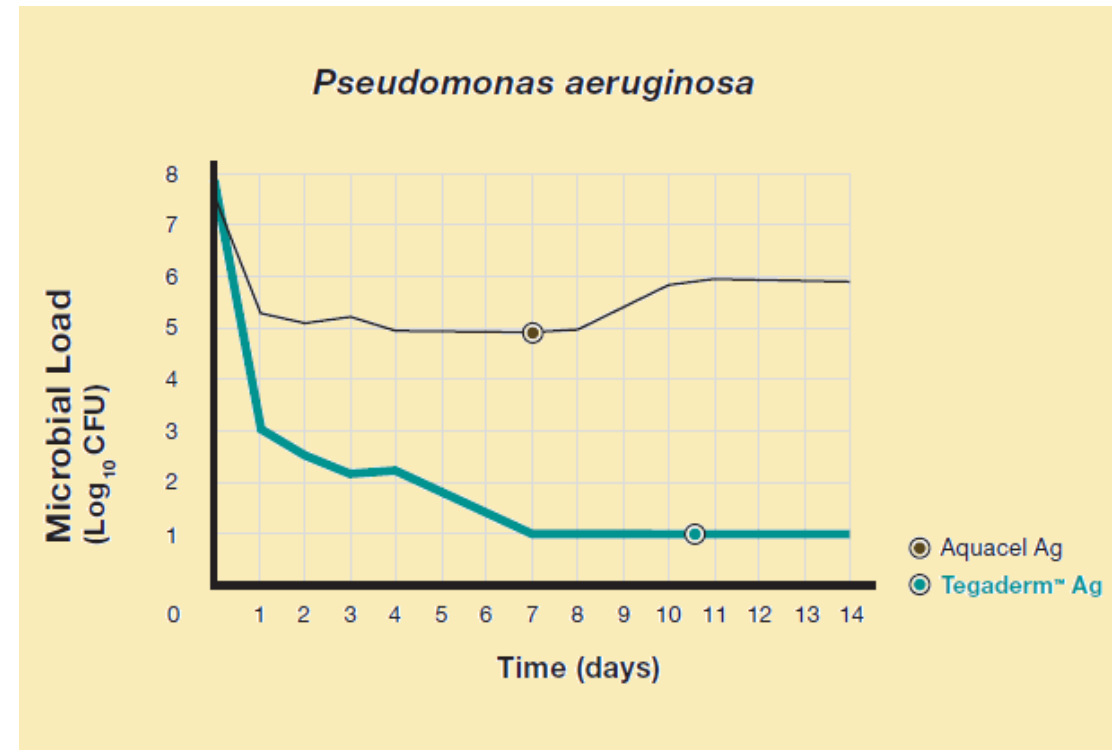
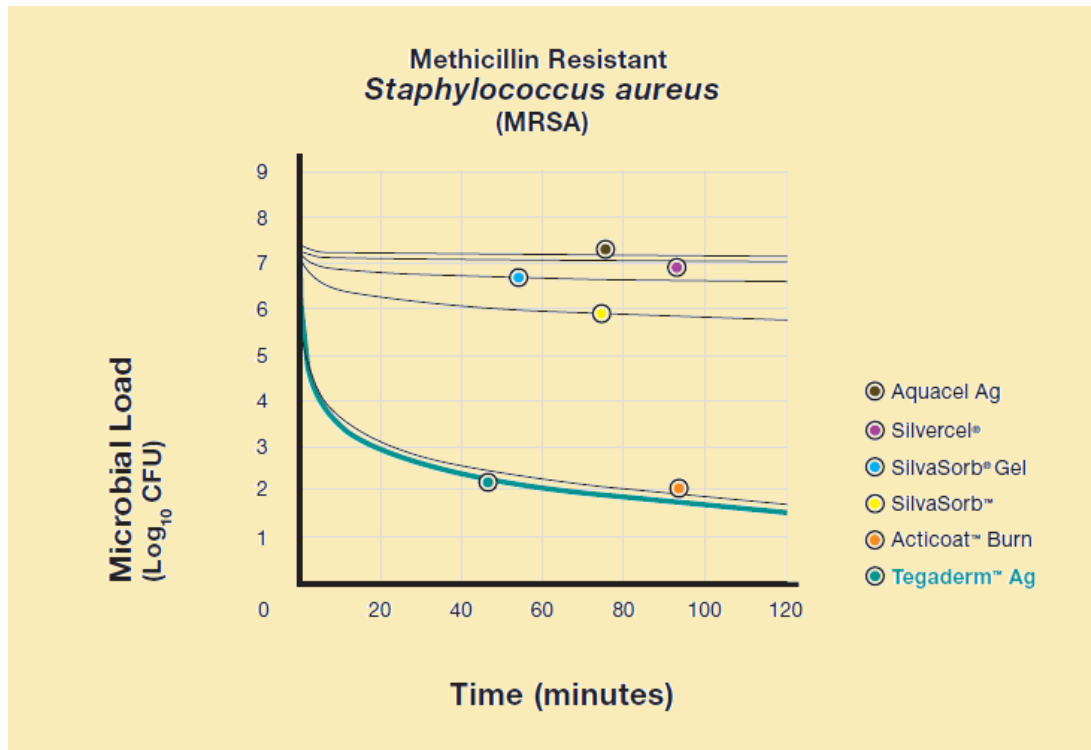
EFFICACIA *

Azione **rapida**

= efficacia immediata

Azione **prolungata**

= non ricomparsa dei microrganismi



Tegaderm™ Alginate Ag

MODALITA' D'USO



- Tegaderm™ Alginate Ag può restare in situ **fino 7 gg**
- La medicazione **assorbe a saturazione**
- **Tagliabile** e **zaffabile**, può essere piegata per **conformarsi** al meglio alla lesione
- Avere cura di proteggere il bordo della ferita e di **non sovrapporre** la medicazione **ai margini** della lesione
- Alla rimozione, inumidire con **soluzione fisiologica** se asciutta
- Coprire con una **medicazione secondaria non occlusiva**

Tegaderm™ Alginate Ag

BIBLIOGRAFIA

CHRONIC WOUNDS

| | | | | | |
|---|---------------------------|---|---|-------------------------------|--|
| Tegaderm™ Ag Mesh Dressing with Silver — vs — Silver sulfadiazine cream | Randomized Clinical Trial | The Efficacy of Silver Mesh Dressing Compared with Silver Sulfadiazine Cream for the Treatment of Pressure Ulcers | Wound reduction was greater for patients managed with Tegaderm™ Ag Mesh Dressing with Silver. The cost of treatment using Tegaderm™ Ag Mesh Dressing with Silver was significantly less than using silver sulfadiazine cream. | Aprig, C. et al. | J Med Assoc Thal. 2011;94(5): 559-565 |
| Tegaderm™ Ag Mesh Dressing with Silver | Case Series | Evaluation of 3M™ Tegaderm™ Ag Mesh Dressing with Silver in the Management of Wounds Where Sub-infectious Microbial Colonization is Suspected | Case studies of slow to non-healing wounds (a venous stasis ulcer, a dehisced surgical wound, and a Stage IV ischial pressure ulcer) were managed using Tegaderm™ Ag Mesh Dressing with Silver. All wounds were suspected of critical colonization. Management of these wounds with Tegaderm™ Ag Mesh Dressing with Silver over 3-4 weeks led to reduced signs of critical colonization with resumption of normal wound healing. | Brown-Etris, M. Punchello, M. | White Paper based on poster presented at 2007 WOCN 70-2009-7189-6 |
| Tegaderm™ Ag Mesh Dressing with Silver | Case Series | Use of 3M™ Tegaderm™ Ag Mesh Dressing with Silver in Patients with Recurrent Lower Extremity Ulcers | Tegaderm™ Ag Mesh Dressing with Silver was used on two patients, each with venous leg ulcers. Tegaderm™ Ag Mesh Dressing with Silver demonstrated progressive healing in a 6-8 week period versus wound deterioration with treatment of hydrogel, contact layer and zinc paste bandage. | Peltier, G. et al. | White Paper (2007) 70-2009-7525-1 |
| Tegaderm™ Ag Mesh Dressing with Silver | Case Series | Management of Recalcitrant Ulcers with 3M™ Tegaderm™ Ag Mesh Dressing with Silver | Two patients, one with a venous stasis ulcer and another with a recurrent ulcer on an index finger, had failed to improve with multiple treatment modalities, including silver therapies. Rapid closure occurred using Tegaderm™ Ag Mesh Dressing with Silver on these recalcitrant wounds. | Agbim, S. | White Paper (2006) 70-2009-7535-0 |



ANTIMICROBIAL EFFICACY

| | | | | | |
|--|-------------------------|--|---|--|--|
| Tegaderm™ Ag Mesh Dressing with Silver | <i>in vitro</i> Studies | The Power of Silver | High level summary of efficacy of Tegaderm™ Ag Mesh Dressing with Silver. Includes the efficacy of Tegaderm™ Ag Mesh Dressing with Silver against several pathogens including MRSA, MRSE, VRE, MDR, Pseudomonas aeruginosa, and Candida albicans. Includes information on how ionic silver works. | 3M | Product Monograph (2006) 70-2009-7137-5 |
| Tegaderm™ Ag Mesh Dressing with Silver — vs — ConvaTec AQUACEL® Ag Hydrofiber® Dressing with Ionic Silver | <i>in vitro</i> Studies | <i>In Vitro</i> Investigation of the Long-term Time-Kill Kinetics of 3M™ Tegaderm™ Ag Mesh Dressing with Silver Compared to Aquacel® Ag Hydrofiber® Dressing with Ionic Silver | The sustained activity of Tegaderm™ Ag Mesh Dressing with Silver against wound microorganisms demonstrate 14-day efficacy against commonly encountered wound pathogens including MRSA, VRE, anaerobic bacteria and yeast, and fungi. Tegaderm™ Ag Mesh Dressing with Silver compared favorably to ConvaTec AQUACEL® Ag Hydrofiber® Dressing with Ionic Silver. | Thomhill, G. Stahl, J. Opp, C. | White Paper (2006) 70-2009-7151-6 |
| Tegaderm™ Ag Mesh Dressing with Silver — vs — Smith & Nephew ACTICOAT® Dressing — vs — ConvaTec AQUACEL® Ag Hydrofiber® Dressing with Ionic Silver | <i>in vitro</i> Studies | <i>In Vitro</i> Assessment of the Microbicidal Activity of 3M™ Tegaderm™ Ag Mesh Dressing with Silver Using a Short-term Time-Kill Procedure | Tegaderm™ Ag Mesh Dressing with Silver performed better than Smith & Nephew ACTICOAT® Dressing when challenged with: Candida albicans, Enterococcus faecalis (MDR), Enterococcus faecium (VRE), Staphylococcus aureus (MRSA), and Staphylococcus epidermidis (MRSE). Tegaderm™ Ag Mesh Dressing with Silver was found to be significantly faster than ConvaTec AQUACEL® Ag Dressing in reducing the same microbial load. | Baxter, K. Stahl, J. Morse, D. Opp, C. | White Paper (2006) 70-2009-7152-4 |
| Tegaderm™ Ag Mesh Dressing with Silver | <i>in vitro</i> Studies | <i>In Vitro</i> Assessment of the Broad-Spectrum Activity of Ionic Silver in 3M™ Tegaderm™ Ag Mesh Dressing with Silver | Zone of inhibition studies demonstrating Tegaderm™ Ag Mesh Dressing with Silver inhibits the growth of pure cultures of multiple microorganisms. | Thomhill, G. Stahl, J. Opp, C. | White Paper (2006) 70-2009-7153-2 |

