AQUACEL® Ag+ Extra™

Product Description

POWERED BY Hydrofiber® TECHNOLOGY

AQUACEL® Ag+ EXTRA™ Enhanced Hydrofiber™ Dressing with Silver and Strengthening Fibre is a soft, sterile, non-woven dressing made from two layers of sodium carboxymethylcellulose impregnated with 1.2% ionic silver (an antimicrobial agent), enhanced by ethylenediaminetetra-acetic acid di-sodium salt (EDTA) and benzethonium chloride (BeCl), and strengthened by regenerated cellulose fibre.

This dressing absorbs high amounts of wound fluid and bacteria and creates a soft, cohesive gel that intimately conforms to the wound surface,maintains a moist environment and aids in the removal of non-viable tissue from the wound (autolytic debridement). A moist wound environment and control of wound bacteria supports the body's healing process and helps reduce the risk of wound infection. The ionic silver in the dressing kills pathogenic microorganisms, both planktonic and within bacterial biofilms, including wound bacteria, yeasts and moulds. The dressing also disrupts and absorbs biofilm, prevents biofilm formation/reformation and increases the efficiency of silver transfer to microorganisms. The dressing itself also provides an antimicrobial barrier to protect the wound bed.[1]

Application

- Before applying the dressing, cleanse the wound area with an appropriate wound cleanser.
- AQUACEL® Ag+ EXTRA™ Enhanced Hydrofiber™ Dressing with Silver and Strengthening Fibre should overlap at least 1cm onto the skin surrounding the wound.
- When using this dressing in deep wounds, only fill the wound up to 80%, as this dressing will expand to fill the wound space on contact with wound fluid.
- This dressing is recommended to be used with:
  - a moisture retentive cover dressing such as AQUACEL® Foam, DuoDERM® Extra Thin or CarboFlex® in lightly to moderately exuding wounds;
  - a non adhesive cover dressing such as AQUACEL® Foam NA, or CarboFlex® or a gauze pad, in heavily exuding wounds;
  - for dry wounds refer to section FOR DRY WOUNDS below.
- See individual cover dressing package inserts for complete instruction for use.
- All wounds should be inspected regularly. Remove this dressing when clinically indicated (i.e., leakage, excessive

Please refer to pack insert for full instructions prior to use.

FOR DRY WOUNDS

- Place the AQUACEL® Ag+ EXTRA™ Enhanced Hydrofiber™ Dressing with Silver and Strengthening Fibre on the wound and wet with sterile saline over the wound area only. The vertical absorption properties of this dressing will help to maintain the moist area over the wound only and reduce the risk of maceration. Cover the dressing with a moisture retentive dressing such as DuoDERM® Extra Thin to avoid drying out of the dressing and subsequent dressing adherence to the wound.

Store at room temperature (10ºC - 25ºC/50ºF - 77ºF). Keep dry.

If further information or guidance is needed, please contact ConvaTec Professional Services

Product Features

AQUACEL® Ag+Extra disrupts and destroys biofilm by combining the power of MORE THAN SILVER™ and Hydrofiber™ technology. AQUACEL® Ag+ Extra contains

MORE THAN SILVER™

- **BEC: A surfactant** Surfactants help to dissolve and remove contamination from surfaces by lowering the surface tension within a biofilm to enhance the ability of EDTA to remove metal ions in biofilm. BEC and EDTA work together to disrupt biofilm structures aiding the absorption and removal of the EPS and microorganisms by the dressing.[2,3,4,5]
- **EDTA: Metal Chelating Agent** EDTA helps disrupt biofilm by removing metal ions that hold the EPS matrix within biofilm together to expose microorganisms to the antimicrobial effects of the ionic silver.[2,3,4]
- **Ionic Silver** A safe, broad-spectrum antimicrobial that is effective in its ionic form against wound pathogens that can cause infection – including MRSA, VRE, and Pseudomonas aeruginosa.

As AQUACEL® Ag Extra™ dressing contains Hydrofiber® technology it:

- Helps reduce maceration by locking exudate into its fibres away from the skin[6]
- Cohesive gel allows easy, atraumatic removal
- Soft and conformable, allowing intimate contact with the wound surface. This helps reduce "dead space" where bacteria may reside[7,†]

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Specifications

Size	Dressings Per Box	Product Code
AQUACEL® Ag+ Extra™ Dressings		
5cm x 5cm	10	413566
10cm x 10cm	10	413567
15cm x 15cm	5	413568
20cm x 30cm	5	413569
4cm x 10cm	10	413581
4cm x 20cm	10	413598
4cm x 30cm	10	413599
AQUACEL® Ag+ Ribbon Dressings		
1cm x 45cm	5	413570
2cm x 45cm	5	413571

Indications

AQUACEL® Ag+ EXTRA™ Enhanced Hydrofiber™ Dressing with Silver and Strengthening Fibre may be used as stated in the DIRECTIONS FOR USE for the management of:

- wounds as a barrier to bacterial penetration of the dressing as this may help reduce infection;
- wounds where there is an infection or an increased risk of infection;
- diabetic foot ulcers, leg ulcers, (venous stasis ulcers, arterial ulcers and leg ulcers of mixed aetiology) and pressure ulcers/sores (partial & full thickness);
- surgical wounds;
- traumatic wounds;
- wounds that are prone to bleeding, such as wounds that have been mechanically or surgically debrided;
- oncology wounds with exudate, such as fungoides-cutaneous tumors, fungating carcinoma, cutaneous metastasis, Kaposi's sarcoma, and angiosarcoma;
- wounds where bacteria are a suspected cause of (or a factor in) chronicity / non-progression.

Perfect Partners

For infected wounds or wounds at risk of infection, consider:

AQUACEL® Ag+ Extra™ + AQUACEL® Foam

Experience the synergy of Hydrofiber® Technology dressings

Combining dressings is common practice, however very little evidence exists to demonstrate how effectively they will work together. Only AQUACEL® Foam dressing has been designed to work with the AQUACEL® family of primary dressings to help achieve optimal dressing performance.

* *As demonstrated in-vitro comparing 5 silicone based foam dressings currently on the market. Data held on file at ConvaTec Inc.*

- Responds to wound conditions by forming a cohesive gel, while helping to minimise pain associated with dressing changes[11,12,13]
- Micro-contours to the wound bed, helping to maintain optimal moisture balance and eliminates dead spaces where bacteria can grow[10,14]
- Locks in excess exudate, bacteria and helps prevent maceration[15,16,17]
- 100% non-restricted exudate transfer between Hydrofiber™ layers[18,19]
- Creates an ideal balanced environment for healing[8,9]

References

1. 1 Antimicrobial activity has been demonstrated by relevant in vitro microbiological assay. **2.** Said J, Walker, M, Parsons D, Stapleton P, Beezer AE, Gaisford S. An in vitro test of the efficacy of an anti-biofilm wound dressing. Int J Pharmaceutics. 2014; 474: 177-181. DOI 10.1016/j ipharm.2014.08.034. **3.** Composition comprising antimicrobial metal ions and a quaternary cationic surfactant WO12136968 Parsons World patent application 11th October 2012. **4.** Banin E., Brady K.M. & Greenberg E.P. (2006). Chelator Induced Dispersal and Killing of Pseudomonas aeruginosa Cells in Biofilm. Appl. Environ. Microbiol. 72. 2064 2069. **5.** Chen X, Stewart PS, 2000. Biofilm removal caused by chemical treatments. Wat. Res. **6.** B.J. Robinson, The use of a hydrofibre dressing in wound management, J Wound Care. 2000;9(1):32-34. **7.** Jones SA, Bowler PG, Walker M, 2005. Antimicrobial activity of silver containing dressings is influenced by dressing conformability with a wound surface. WOUNDS, 17: 263-270. **8.** Bishop SM, Walker M, Rogers AA, Chen WYJ. Moisture Balance: Optimising the wound-dressing interface, 2003. J Wound Care 12: 125-128. **9.** Walker M and Parsons D, 2010. Hydrofiber® Technology: its role in exudate management. Wounds UK 6: 31-38. **10.** Bowler P, Jones S, Towers V, Booth R, Parsons D, Walker M, 2010. Dressing conformability and silver-containing wound dressings. Wounds UK 6: 14-20. **11.** Barnea Y, Amir A, Leshem D, et al. Clinical comparative study of Aquacel and paraffin gauze dressing for split-skin donor site treatment. Ann Plast Surg. 2004;53(2):132-136. **12.** Kogan L, Moldavsky M, Szvalb S, Govrin-Yehudain J. Comparative study of Aquacel and Silverol treatment in burns. Ann Burns Fire Disasters. 2004;17(4):201- 207. **13.** DM, Foster KN, Hermans MHE, Rick C, 2004. AQUACEL® Ag in the management of partial-thickness burns: Results of a Clinical Trial. J. Burn Care Rehabil.; 25: 89-97. **14.** Jones SA, Bowler PG, Walker M, 2005. Antimicrobial activity of silver-containing dressings is influenced by dressing conformability with a wound surface. WOUNDS, 17: 263-270. **15.** Newman GR, Walker M, Hobot JA, Bowler PG, 2006. Visualisation of bacterial sequestration and bacterial activity within hydrating Hydrofiber® wound dressings. Biomaterials 27(07): 1129-1139. **16.** Walker M, Hobot JA, Newman GR, Bowler PG, 2003. Scanning electron microscopic examination of bacterial immobilization in a carboxymethyl cellulose (AQUACEL®) and alginate Dressing. Biomaterials 24:883-890. **17.** Bowler PG, Jones SA, Davies BJ, Coyle E, 1999. Infection control properties of some wound dressings. J.Wound Care 8(10):499-502. **18.** Visual Assessment of Fluid Handling by AQUACEL® Extra covered by Different Foam Dressings WHRI5397 MS147. Data on file, ConvaTec Inc. **19.** Mixing Wound Dressings: Does it Affect Clinical Outcomes, Tickle. J. Poster presented at World Union of Wound Healing Societies, 2016.

† As demonstrated *in vitro*

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