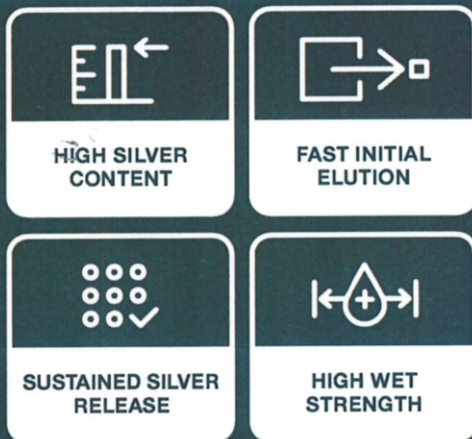




WOUND CARE
BECAUSE YOU CARE



AQUAFIBER Ag

Medical Device Reg NO: GD6610921-59294
Medical Device Name: Activheal Aquafiber AG

D.D.L. Medical Supplies (121957)
Ground Floor, Lot 348, Lorong 7A,
Jalan Ang Cheng Ho,
93100 Kuching, Sarawak, Malaysia
Tel: 019-6641255

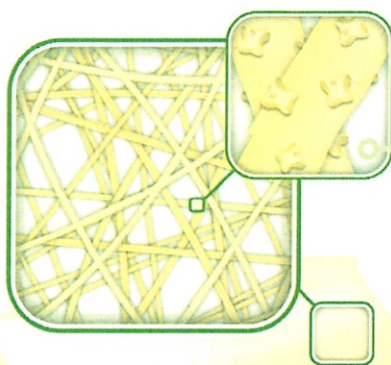
FEATURES

High Silver Content // Fast initial Elution of Silver Ions // Sustained Silver Release // High Wet Strength //

AQUAFIBER^{Ag} INDICATED FOR THE MANAGEMENT OF INFECTED WOUNDS OR WOUNDS THAT ARE AT RISK OF INFECTION.

ActivHeal Aquafiber[®] Ag Antimicrobial wound dressing is a sterile, non-woven pad consisting of a high M (mannuronic acid) calcium alginate and carboxymethylcellulose (CMC).

Silver ions are released in the presence of wound fluid. As fluid is absorbed, the alginate forms a soft gel which assists in maintaining a moist environment for optimum wound healing and allows intact removal. Silver ions released in the presence of wound exudate are an effective antimicrobial agent for up to 7 days, based on in-vitro testing, against a broad spectrum of microorganisms frequently associated with bacterial colonisation and infection of wounds.



PERFORMANCE

Silver salts are attached to the fibres and ionic silver is released in the presence of wound exudate

Absorbency¹

Higher absorbency can result in reduced dressing change frequency, minimising clinician time and disruption to the patient.

AQUACEL[®] AG +EXTRA
15.26
g/100cm²

AQUAFIBER[®] AG
16.43
g/100cm²

Fast initial and sustained anti-microbial activity²

BACTERIA	AQUAFIBER AG			AQUACEL AG		
	7 DAYS	14 DAYS	21 DAYS	7 DAYS	14 DAYS	21 DAYS
MRSE	✓	✓	✓	✓	✓	✗
MRSA	✓	✓	✓	✓	✓	✗
VRE	✓	✓	✓	✓	✓	✗
S.pyogenes	✓	✓	✓	✓	✓	✗
S.epidermidis	✓	✓	✓	✓	✓	✗
E.Coli	✓	✓	✓	✓	✓	✓
C.Albicans	✓	✓	✓	✓	✓	✗
P.aeruginosa	✓	✓	✓	✓	✓	✓

CASE STUDY

Patient MB, is a 55 year old lady who was seen following an Incision and drainage of an abscess and presented to the Tissue viability team with a cavity wound to the left groin.



- DAY 1**
- Wound measured 11.2cm by 2.2cm and had a depth of 10.4cm
 - Wound presented as 5% necrotic, 45% slough and 50% granulating tissue
 - Wound showed clinical signs of infection – erythema, heat, oedema, increased level of exudate and abnormal discharge
 - ActivHeal Aquafiber[®] Ag ribbon applied and covered with secondary dressing
 - Dressing was changed daily due to excessive exudates level

- DAY 3**
- All necrotic tissue removed
 - Granulation tissue increased to 60%
 - Infection and exudates levels reduced (bacterial burden reduction)

- DAY 7**
- 90% granulation tissue
 - Wound depth reduced to 9.9cm
 - Exudation levels reduced
 - The dressing was discontinued and TNP initiated

ActivHeal Aquafiber[®] Ag dressing aided the reduction of bacterial bio-burden and the autolytic debridement of devitalised tissue.

INDICATIONS

ActivHeal Aquafiber[®] Ag Antimicrobial wound dressing is indicated for the following moderately to heavily exuding, partial to full thickness wounds:

- Post operative wounds
- Trauma wounds (dermal lesions, trauma injuries or incisions)
- Leg ulcers
- Pressure ulcers
- Diabetic ulcers
- Superficial and partial thickness burns
- Graft and donor sites
- Cavity wounds

Moderate > Heavy Exudate



Wound Types



SIZES AND CODES

ACTIVHEAL AQUAFIBER[®] AG

SIZE (CM)	QTY PER CARTON	QTY PER CASE	PRODUCT CODE	DT PIP CODE	NHS SUPPLY CODE
5x5	10	10	9023236	405-6172	ELY778
10x10	10	10	9023243	405-6180	ELY779
15x15	5	10	9023267	405-6206	ELY780
2.7x32 Ribbon	5	10	9023281	405-6222	ELY781

ActivHeal Aquafiber[®] Ag is available through Drug Tariff and NHS Supply Chain.

Advanced Medical Solutions Ltd

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References 1. AMS Data on file: LD089-17. 2. AMS Data on file: P914R. 3. EU Market only.

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EFFECTIVENESS OF ADVANCED DRESSING IN BKA STUMP COMPLICATION MANAGEMENT IN YOUNG DIABETIC PATIENTS: A CASE STUDY

DR Ananthi Tharmarajan
Klinik Rasah Prima Seremban

Professor Data¹ Dr. Harikrishna K.R. Nair^{DMIJ S.I.S KMNMD FRCPI FRCPE FCWCS MSC WHTR PHD}
Head, Wound Care Unit, Dept of Internal Medicine, Hospital Kuala Lumpur

INTRODUCTION:

Major non-traumatic LEAs (Lower Extremity Amputations) are highly prevalent in diabetic patients and 50 to 70% of LEAs are associated with diabetes. Foot ulceration in diabetes is the leading cause of non-traumatic LEAs. A diabetic patient has a lifetime risk of 15-25% of developing a foot ulcer (Chin JWS 2013). Infection associated with foot ulceration leads to gangrene and ultimately necessitates non-traumatic LEAs.

In a septic presentation, major LEAs, such as BKA (below-knee amputation) serve as life-saving procedures in young patients. The incidence of BKA stump complication is as high as 8 to 18%. Management of BKA stump complication includes antibiotics, and local wound care to need for more proximal amputation at above knee level. The conversion of BKA to AKA for stump complication is around 12-51% (Balan N et al, 2023)

METHOD:

- A retrospective single case analysis where a patient with an infected BKA stump and dehiscence was chosen from Klinik Rasah Prima, Seremban.
- TIME concept of wound assessment was used throughout the healing journey for documentation purposes. Holistic care was given to the patient. The patient was treated as per the standard of care of wound infection management (Wounds UK 2021).
- The wound was cleansed using superoxidized hypochlorous acid (HOCL). Conservative sharp wound debridement was performed at the bedside, using sterile sharp instruments such as scalpels, forceps, and scissors whenever needed.
- Aquafibre Ag Silver Alginate was used as a primary dressing. For the initial highly exudate period, nonadhesive polyurethane foam was used as a secondary dressing for absorption.
- Daily dressing was done for an initial 3 days to facilitate conservative sharp debridement. Then dressing frequency was reduced to EOD for 3/52, then 2 times a week till complete healing.
- The patient's blood sugar is monitored closely, and the insulin dose is adjusted and stabilized accordingly. Diet habits reviewed weekly for better adherence
- Tab cefuroxime 500mg OD was given for the first 3/52. Cap L-Arginine plus L-Citrulline 250/250mg OD was given for 2 months

CASE REPORT:

MRS A, a 43 years old Indian lady, married, nulliparous, K/C/O DM, HPT, IHD, presented to our clinic on 26th March 2023 with an infected stump wound with wound dehiscence post below knee amputation. Upon presentation, her vital signs are stable with Dxt: 16 and pain score: 6/10

The patient underwent a BKA in Hospital PD (HPD) on 04.02.2023, as she presented in a septic state after failed wound management in a GP clinic.

The patient underwent RT BKA on 04.02.2023. After discharge, the patient went to KK for regular dressing. The patient noticed increased soaking of dressing with discharge, so came to a private clinic for a second opinion.

3 Wounds noted largest in the lateral aspect approximately measuring 8 x 6cm in size, middle one 3cm x 1.5cm in size, medial one 3cm x 3cm in size.

TIME CONCEPT



INVESTIGATIONS AND DIAGNOSIS

- FBC: Hb 8.5g/dl • Swab C&S done on 26.03.2023, Pseudomonas aeruginosa, sensitive to cefuroxime.
- WBC: 23.8 x 10⁹/L, with neutrophil prominent • Diagnosis: Infected right BKA stump, Texas stage 2B

RESULTS:



Wound healing was evidenced by the reduction in wound size, reduction in infection and pain, and improved granulation and epithelialization. Complete epithelialization was achieved on day 46.

DISCUSSION:

- When the patient presented, she was in a spreading infection state, as there were clear signs of local infection such as the presence of pus upon milking in addition to fever and leucocytosis. So oral antibiotics were given for an initial 3 weeks.
- Aquafibre Ag dressing is a non-woven pad composed of calcium alginate, carboxymethylcellulose (CMC), and ionic silver.
- Calcium ions present within the alginate fibre, exchange with sodium ions found in wound exudate. The donation of calcium activates the wound-healing process by stimulating cytokines and controlling minor bleeding.
- Silver dressings are indicated for local, spreading, and systemic infections; however, systemic antibiotics need to be combined for spreading and systemic infection (adapted from Wounds International 2021).
- Silver in its elemental form is unreactive, it loses an electron and becomes positively charged silver ions (Ag⁺) to become bactericidal. Elemental silver ionizes more readily when exposed to wound exudate.
- Silver ions act at different levels, they bind to bacterial cell walls, preventing nutrients and oxygen to entering the cell. They prevent the cell from producing energy, once they enter the cell. They have the capacity to change the sequence of DNA, preventing its replication.
- Silver ions are active against a broad range of bacteria, fungi and viruses, several antibiotic-resistant strains such as methicillin-resistant Staphylococcus aureus (MRSA) and Vancomycin-resistant Enterococci (VRE) (Wounds International, 2021).
- High gelling fibre technology in Aquafibre Ag was chosen for exudate management. Aquafibre has the ability to absorb exudates, creating a gel for ease of removal without damaging the wound bed. It facilitates autolytic debridement, by creating moist environment as they form gel when they contact with wound exudate.
- The wound is reviewed every 2 weeks and the management approach was continued as there was considerable progress.

Conclusion

- Early commencement of drug therapy in young patients diagnosed with DM is important to prevent complications of diabetes. Target HbA1c is individualized; $\leq 6.5\%$ for those young, uncomplicated, with short duration of disease; while $<7.0\%$ would be appropriate for most other adult T2DM individuals. Achieving HbA1c target early, from diagnosis and maintaining glucose control for as long as possible, will result in persistent benefits and reduction of complications in the long-term (Metabolic memory). (adapted from Malaysian CPG, Management of Type 2 Diabetes mellitus)
- Proper treatment of foot ulcers can reduce the infectious complications leading to amputation.
- Successfully managing major BKA stump complications is imperative in preventing more proximal amputation and restoring ambulatory status for patients (Balan N et al, 2023). Once a BKA has healed the chance of requiring an ipsilateral AKA is only 4% (Leaper et al, 2011)

	BKA	AKA
Energy required for walking is increased by	60%	120%
Grade III-V mobility	40%	80%
30-day mortality	12%	17%

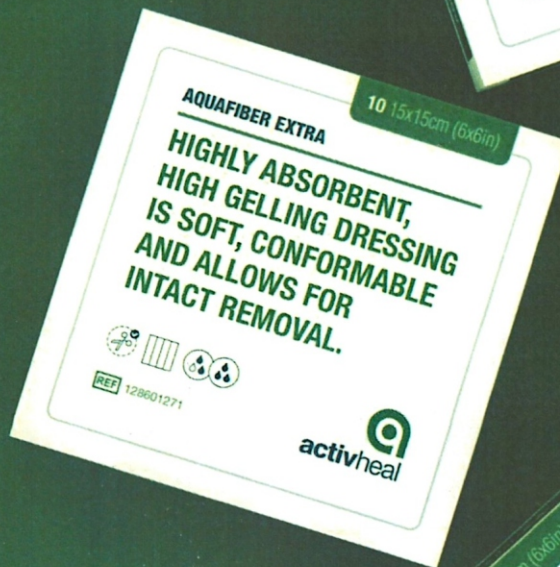
Reference

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- Malaysian Clinical practice guidelines, Management of Type 2 Diabetes mellitus (6th Edition)
- Harikrishna K R Nair, 2017, Diabetic foot, The Asian perspective, 2nd edition, Malaysia, Unique link dot print
- Overview of wound infection management, Wounds UK 2021

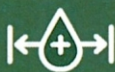


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WOUND CARE
BECAUSE YOU CARE



**HIGHLY
ABSORBENT**



**HIGH WET
STRENGTH**



**REDUCES RISK
OF MACERATION**



**INCREASED
VERTICAL WICKING**

AQUAFIBER EXTRA

Medical Device Reg NO: GD5416223-129591
Medical Device Name: Activheal Aquafiber Extra

D.D.L. Medical Supplies (121957)
Ground Floor, Lot 348, Lorong 7A,
Jalan Ang Cheng Ho,
93100 Kuching, Sarawak, Malaysia
Tel: 019-6641255

FEATURES

Highly absorbent // High gelling // The dressing can remain *in situ* for up to 7 days // Reduces risk of maceration // Maintains a moist wound healing environment // Aids autolytic debridement // High wet tensile strength //

ACTIVHEAL® AQUAFIBER EXTRA CREATES A MOIST WOUND HEALING ENVIRONMENT FOR MODERATE TO HEAVILY EXUDING WOUNDS.

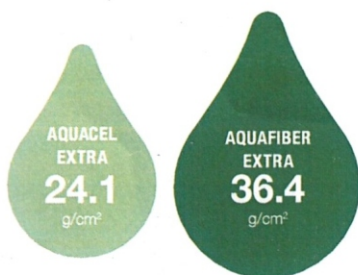
ActivHeal® Aquafiber Extra is an innovative combination of two proven wound care technologies based on CMC & alginate fibres. A hidden integrity layer in the dressing supports the tensile performance.

ActivHeal® Aquafiber Extra is a soft, conformable, highly absorbent and non-woven dressing which turns into a soft, cohesive gel when in contact with wound exudate. Thus it helps with autolytic debridement and maintains a moist wound healing environment following the principles of advanced wound care. ActivHeal® Aquafiber Extra effectively addresses the key challenges of improved exudate management, gelling & tensile performance.

PERFORMANCE

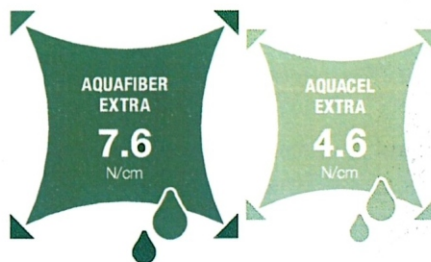
High absorbency

The unique design & fibre engineering of ActivHeal® Aquafiber Extra allows the dressing to absorb exudate & transform into a cohesive gel.



High wet tensile strength

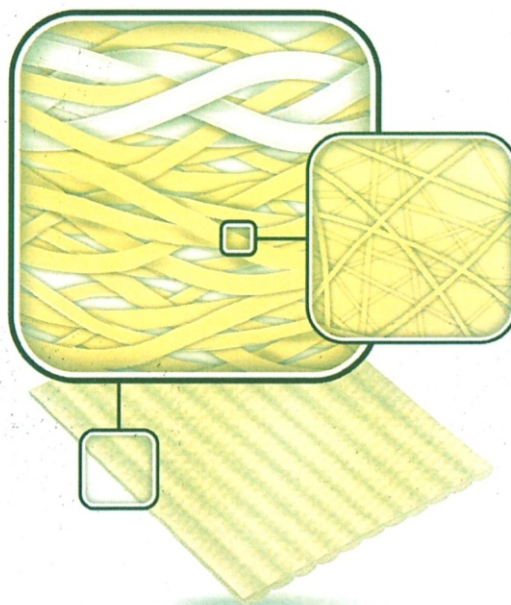
The quilting pattern of ActivHeal® Aquafiber Extra is supported by a hidden integrity layer allows for intact removal of the dressing.



Low lateral wicking

In-house analysis¹ has confirmed that the vertical wicking of the ActivHeal® Aquafiber Extra can be potentially helpful in the prevention of maceration within the peri-wound skin.

- ✓ HIGH ABSORBENCY¹
- ✓ HIGH WET TENSILE STRENGTH¹
- ✓ INCREASED VERTICAL WICKING¹



INDICATIONS

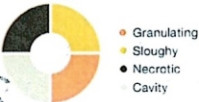
ActivHeal® Aquafiber Extra is indicated for the management of the following moderately to heavily exuding acute and chronic wounds:

- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers
- Diabetic ulcers
- Graft and donor sites
- Post-operative surgical wounds
- Cavity wounds
- Superficial and partial thickness burns

Moderate > Heavy Exudate



Wound Types



SIZES AND CODES

ACTIVHEAL® AQUAFIBER EXTRA

SIZE (CM)	QTY PER CARTON	QTY PER CASE	PRODUCT CODE	NHS SUPPLY CHAIN CODE	DT CODE
5x5	10	10	9023625	ELY795	407-5339
10x10	10	10	9023632	ELY796	407-5347
15x15	5	10	9023649	ELY797	407-5628
20x30	5	10	9023656	ELY798	407-5321
2.5x30.5 Ribbon	5	10	9023663	ELY799	407-5602
2x46 Ribbon	5	10	9023670	ELY800	407-5610

ActivHeal® Aquafiber Extra is available through the NHS Supply Chain and Drug Tariff

Advanced Medical Solutions Ltd

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References 1. AMS Data on file LD024-16, LD037-16.

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activheal

AQUAFIBER EXTRA Ag

ACTIVHEAL® AQUAFIBER™ EXTRA Ag
DELIVERING OUTSTANDING PERFORMANCE²



HIGHLY
ABSORBENT



HIGH WET
STRENGTH



HIGH SILVER
CONTENT



LOW LATERAL
WICKING

PERFORMANCE³



Highly effective against a broad spectrum of bacteria and yeast.

DISCOVER WHY

ActivHeal® AquaFiber™ Extra Ag contains silver, effectively managing and suppressing colonisation and proliferation of bacteria and yeast within the dressing for up to 7 days, based on in-vitro testing.

ActivHeal® AquaFiber™ Extra Ag is designed to minimise the risk of maceration and damage to newly formed tissue.

In-vitro testing shows effectiveness against the following challenge organisms.³



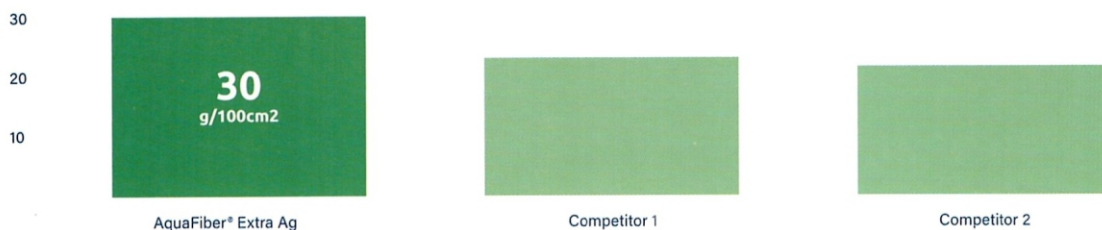
GRAM POSITIVE BACTERIA	GRAM NEGATIVE BACTERIA	YEAST
VRE Streptococcus mutans Staphylococcus aureus	Enterobacter cloacae Klebsiella pneumoniae Serratia marcescens	Candida albicans

HIGHER ABSORBENCY⁴

ActivHeal® AquaFiber™ Extra Ag has higher absorbency compared to market leader (competitor 1) and other competitor dressings.

DISCOVER WHY

- ▶ Improved exudate management for moderate to heavily exuding wounds
- ▶ Potentially reduce the number of dressing changes required
- ▶ Helps to prevent possible leakage
- ▶ Assists with maintaining a moist wound environment
- ▶ Can remain in situ for up to 7 days*



* Dressing change frequency will depend on patient condition and level of exudate

EVEN STRONGER WHEN WET⁴

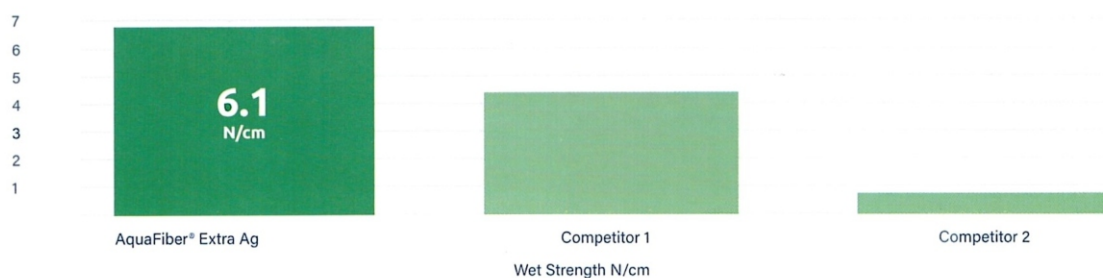


The patented quilting technology and the hidden integrity layer of ActivHeal® AquaFiber™ Extra Ag results in a 49% stronger dressing than the market leader (competitor 1).

DISCOVER WHY

The benefits of a stronger dressing:

- ▶ Allows intact removal on dressing change
- ▶ Can be used in cavity wounds
- ▶ Can be used for awkward areas tunneling/undermining
- ▶ May help with minimising trauma* as can be removed in one piece²



* Based on customer satisfaction score, please see reference 2.

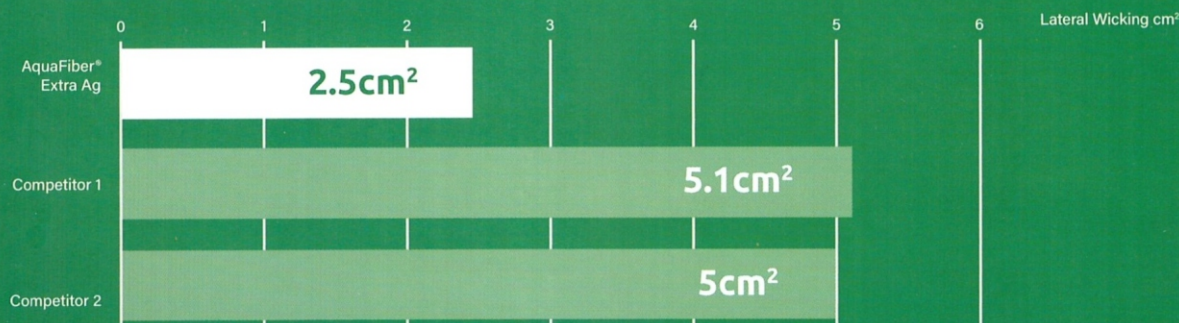
LATERAL WICKING⁴

Good lateral wicking contains the liquid/exudate within the point of application and prevents spread within the dressing. For this test a lower value for lateral wicking is better.

DISCOVER WHY

The importance of Lateral Wicking:

- ▶ Assists in the prevention of maceration and aid in protection of the wound edges and surrounding skin
- ▶ May help to reduce the risk of cross contamination by containing exudate within the dressing



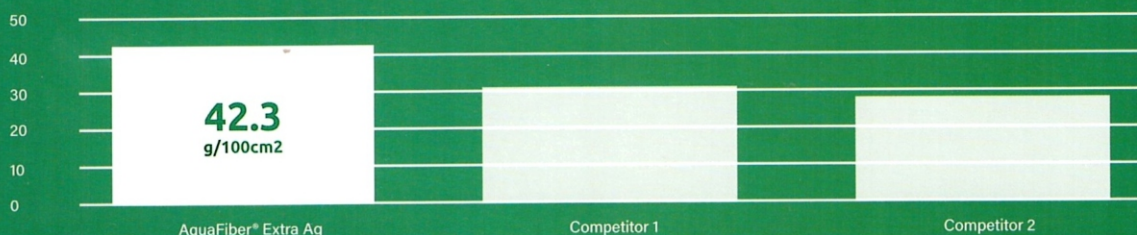
ABSORBENCY UNDER COMPRESSION⁴

ActivHeal® AquaFiber™ Extra Ag has an excellent absorbency when used in conjunction with compression.

DISCOVER WHY

The significance of absorbency with compression.

- ▶ Can aid with reducing the number of dressing changes
- ▶ Helps to prevent possible leakage
- ▶ May support patient comfort and confidence in the dressing



INDICATIONS

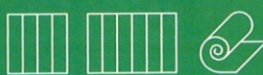
ActivHeal® AquaFiber™ Extra Ag antibacterial dressing can be used in the management of moderate to heavily exuding chronic and acute wounds. The dressing is indicated for use on the following wounds:

- ✓ Pressure ulcers (partial and full thickness)
- ✓ Leg ulcers (venous stasis ulcers, arterial ulcers and leg ulcers of mixed etiology)
- ✓ Diabetic foot ulcers
- ✓ Surgical wounds that heal by primary intent such as dermatological and surgical incisions
- ✓ Surgical wounds left to heal by secondary intention such as dehiscent surgical incisions and donor sites
- ✓ Traumatic wounds



ABSORBENCY

Moderate > Heavy Exudate



DRESSING SHAPES

Available as standard dressing and also as rope

The dressing can be used under compression.

GRANULATING

CAVITY

NECROTIC

SLOUGHY



Dr. Device & Lab
D.D.L. Medical Supplies

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Ground Floor, Lot 348, Lorong 7A, Jalan Ang Cheng Ho,
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Tel: 019-6641255

Email: drdevicemed@gmail.com

Website: www.drdevicelab.com

activheal.com

SIZES AND CODES

ACTIVHEAL® AQUAFIBER™ EXTRA Ag			
SIZE (CM)	SIZE (INCHES)	QTY	PRODUCT CODE
5x5	2x2	10	9025070
10x10	4x4	10	9025087
10x12	4x4.7	10	9025506
15x15	6x6	5	9025094
20x30	8x12	5	9025100
2.5x30.5 Ribbon	1x12	5	9025117
2x46 Ribbon	0.75x18	5	9025124

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Cheshire CW7 3RT, United Kingdom

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References 1: Nazarko L (2018) Choosing the correct wound care dressing: an overview. Journal of Community Nursing 32(5): 42-52
2: S.Barrett, R.Forder, R.Burns: Evaluation of ActivHeal® Aquafiber™ Extra dressings performance and acceptability in clinical practice. Wounds UK | Vol 16 | No 2 | 2020
3. AMS Data on file P3525
4. AMS Data on file LD149-16; LD041-18
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WOUND CARE
BECAUSE YOU CARE



MINIMISES
EPIDERMAL
STRIPPING



REDUCES PAIN
AT DRESSING
CHANGES



PROTECTS THE
PERIWOUND



HIGH
ABSORPTION

SILICONE FOAM RANGE

WOUND CARE
BECAUSE YOU CARE



WOUND CARE
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MINIMISES
EPIDERMAL
STRIPPING



REDUCES PAIN
AT DRESSING
CHANGES



PROTECTS THE
PERIWOUND



HIGH
ABSORPTION

SILICONE FOAM RANGE

WOUND CARE
BECAUSE YOU CARE

FEATURES

Highly conformable // High absorption of exudate // Can remain in situ for up to 7 days // Minimises epidermal stripping // Promotes healing through a moist wound environment // Prevents pain at dressing changes // Protects the periwound // For moderately to heavily exuding wounds //

ACTIVHEAL® SILICONE FOAM DRESSINGS HAVE A GENTLE BUT SECURE ADHESION WITH MINIMAL EPIDERMAL STRIPPING OR PAIN ON REMOVAL

ActivHeal® Silicone Foam Border and Non-Border dressings are constructed from a low friction waterproof polyurethane film, with a highly absorbing polyurethane central pad and a superior silicone adhesive wound contact layer.

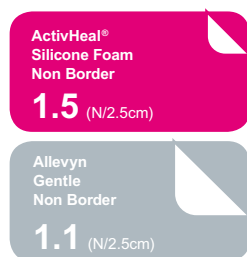
ActivHeal® Silicone Border and Non-Border Foam dressings are for use when adherence to the wound is a potential problem due to fragile skin. The perforated silicone coated wound contact later prevents the dressing from sticking to the wound and reduces pain during dressing changes. The perforations allow the uptake of exudate and prevents excess fluid causing maceration to healthy skin. ActivHeal® Silicone Border and Non-Border Foam dressings maintain a moist wound environment and aids the wound healing process.



PERFORMANCE

Total Fluid Handling Performance ¹
Be confident this foam can handle wound exudate.

Peel adhesion ²
Secure but with pain free removal.



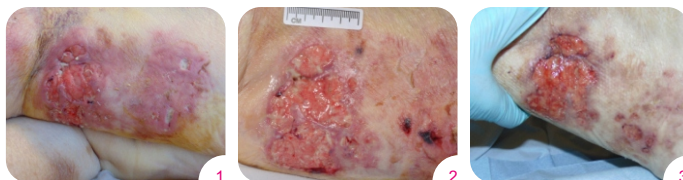
SIZES AND CODES

ACTIVHEAL		SILICONE FOAM BORDER			SILICONE FOAM NON-BORDER		
SIZE (CM)	QTY	PRODUCT CODE	DT PIP CODE	NHS SUPPLY CHAIN	PRODUCT CODE	DT PIP CODE	NHS SUPPLY CHAIN
5x5	10				9001548	402-5383	ELA847
7.5x7.5	10	9001470	402-5318	ELA843	9001555	402-5391	ELA834
10x10	10	9001487	402-5326	ELA838	9001562	402-5417	ELA844
12.5x12.5	10	9001494	402-5334	ELA840			
10x20	10	9001500	402-5342	ELA839	9001579	402-5441	ELA833
15x15	10	9001517	402-5359	ELA841	9001449	402-5425	ELA845
20x20	10	9001524	402-5367	ELA842	9001586	402-5433	ELA846
Sacral	10	9001531	402-5375	ELA848			

ActivHeal® Silicone Foam is available through a variety of channels and via Drug Tariff. suitable for use under compression bandaging.

CASE STUDY

Patient X, is a 72 year old female presented with pressure damage following the removal of a full leg cast to the right leg having fractured the right patella. She had a history of diabetes, hypothyroidism and cirrhosis and the patient was also very immobile. Following a full wound assessment from the TVN, the wound was categorised as having a full thickness tissue loss and had granulating tissue with areas of slough. A category 3 pressure ulcer was diagnosed.

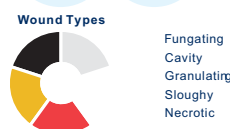


- Day 1 - The levels of exudate were high. The surrounding skin had areas of erythema, but no maceration or excoriation. ActivHeal® Silicone Non border dressings were applied to assist in the management of exudate, prevent adherence and trauma at dressing changes along with providing a moist wound environment to aid wound healing. A honey dressing was applied underneath the foam and a bandage was used to secure the dressings.
- Day 3 - At the 2nd dressing change the wound was showing signs of improvement with a reduction in erythema. There were no signs of maceration or excoriation indicating that the exudate was being managed well by the dressings. The dressing regime continued.
- Day 13 - The wound continued to progress and reduce in size, with areas of new epithelial tissue being seen. There continued to be no signs of maceration or excoriation to the surrounding skin demonstrating that exudate was continually managed. The ActivHeal® Silicone Foam Non-Border was easy to remove and was atraumatic for the patient.

INDICATIONS

ActivHeal® Silicone Border and Non-Border Foam dressings are indicated for use on moderately to heavily exuding chronic and acute wounds. The dressing may be used throughout the healing process on:

- Venous and arterial leg ulcers
- Diabetic ulcers
- Post Operative Surgical Wounds
- Trauma wounds
- Pressure ulcers
- Superficial and partial thickness burns
- Skin Abrasions
- Use as a secondary dressing on cavity wounds



Wound Types
Fungating
Cavity
Granulating
Sloughy
Necrotic

Fungating
Cavity
Granulating
Sloughy
Necrotic

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References 1 & 2. P3103R AMS Data on File (P3103R)

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WOUND CARE
BECAUSE YOU CARE



SUSTAINED
ANTIMICROBIAL
RELEASE



BROAD
SPECTRUM
ANTIMICROBIAL



HELPS PREVENT
RECOLONISATION



REDUCES RISK
OF MACERATION

PHMB FOAM

Medical Device Reg NO: GC3220023-129589

Medical Device Name: Activheal Non-Adhesive PHMB Foam

D.D.L. Medical Supplies (121957)

Ground Floor, Lot 348, Lorong 7A,

Jalan Ang Cheng Ho,

93100 Kuching, Sarawak, Malaysia

Tel: 019-6641255

WOUND CARE
BECAUSE YOU CARE

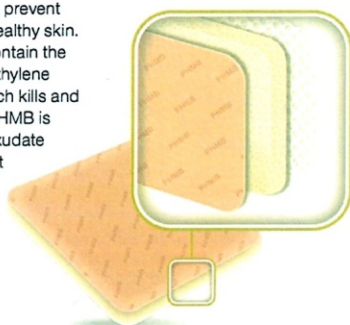
FEATURES

High absorbency of exudate // Promotes healing through a moist wound environment // Reduces the risk of maceration // Sustained antimicrobial release and effectiveness for up to 7 days // Broad spectrum antimicrobial action on MRSA, VRE, Pseudomonas aeruginosa, Candida albicans // Helps prevent recolonisation // Conformable // Waterproof and Bacterial barrier //

ACTIVHEAL® PHMB FOAM CONTAINS AN ANTIMICROBIAL WHICH KILLS & INHIBITS THE GROWTH OF BACTERIA.

ActivHeal® PHMB Foam dressings are sterile antimicrobial wound dressings, consisting of a hydrophilic polyurethane foam which is designed to absorb exudate. This is laminated to a pink, low friction, waterproof polyurethane film which provides a bacterial barrier to the wound.

The wound contact layer side of the dressing has a clear perforated film which protects the wound bed from adhering to the dressing by preventing the formation of granulation tissue into the pores of the foam, thus reducing trauma on dressing removal. The perforations in the wound contact layer allow the uptake of exudate and prevent excess fluid causing maceration to healthy skin. ActivHeal® PHMB Foam dressings contain the antimicrobial substance polyhexamethylene biguanide (PHMB, polihexanide), which kills and inhibits the growth of bacteria. The PHMB is released in the presence of wound exudate and is an effective antimicrobial agent against a broad spectrum of microorganisms (gram+, gram-, and yeast) that are frequently associated with the bacterial colonisation and infection of wounds. The PHMB activity is effective for up to seven days, based on *in-vitro* testing.



PERFORMANCE

Challenge Organism¹

Total eradication of challenged organisms within 24 hours.

Time Period (hrs)	Challenge Organism ¹
1hr	MRSE, S.epidermidis, E.coli, P.aeruginosa
2hrs	MRSA, S.pyogenes, S.aureus
6hrs	VRE
24hrs	C.albicans

Log Reduction²

8x faster log reduction against P.aeruginosa and S.aureus.

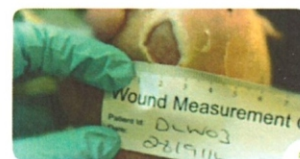
- ActivHeal® PHMB Foam
- Allevyn Ag



Total Fluid Handling Performance¹
Be confident this foam can handle patient exudate.



CASE STUDY



A 54 year old male with poorly controlled type 2 diabetes presented with a right foot plantar superficial neuropathic ulceration. The ulcer was 23mm x 20mm and 4.6cm² presenting with 10% slough and 90% granulation to base, macerated callus to margins extending to 1st and 2nd toe cleft and moderate exudate levels. The foot showed signs of infection including heat, erythema and patient had a raised temperature. **Week 1.** ActivHeal® PHMB Foam (with systemic antibiotics) was selected to assist in reducing wound bioburden and signs and symptoms of infection and manage exudate levels. **Week 5.** Following multiple treatments, the wound showed considerable improvement. The area of the ulcer measured 1.7cm², which was 53% reduction in size since the first application. The interdigital area had dried out and was intact. The dressing was able to provide effective exudate handling, whilst maintaining a moist wound environment and delivering antimicrobial efficacy. For further information on this and other ActivHeal® case studies visit www.activheal.com

INDICATIONS

ActivHeal® PHMB Foam dressings are indicated for moderate to heavily exuding chronic and acute wounds that are infected or are at risk of infection. The dressings may be used during the management of:

- Pressure ulcers
- Diabetic ulcers
- Leg and foot ulcers
- Surgical wounds

Moderate > Heavy Exudate

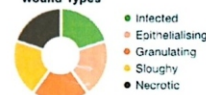


ActivHeal® PHMB Foam is suitable for use under compression bandaging.

Contra-indications

- Dry or lightly exuding wounds
- Surgical implantation
- Individuals with a known sensitivity to polyurethane films, foams, acrylic adhesive or PHMB

Wound Types



SIZES AND CODES

ACTIVHEAL®		PHMB FOAM NON-ADHESIVE		
SIZE (CM)	QTY	PRODUCT CODE	DT PIP CODE	NHS SUPPLY CODE
5x5	10	9027517	404-2024	ELA788
7.5x7.5	10	9027524	404-2032	ELA789
10x10	10	9027531	404-2040	ELA790
10x20	10	9027548	404-2057	ELA791
15x15	10	9027555	404-2065	ELA792
20x20	10	9027562	404-2073	ELA793

ActivHeal® PHMB Foam is available through a variety of channels.

Advanced Medical Solutions Ltd

Premier Park, 33 Road One, Winsford Industrial Estate, Winsford, Cheshire CW7 3RT

T 08444 125 755 E activheal@admedsol.com W www.activheal.com



References 1. AMS data on file LD017-15 & P2339R (P2412). 2. AMS Data on File P2999R. 3. AMS Data on File P2999R.

Allevyn Ag is a registered trademark of Smith and Nephew.

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activheal **PHMB RANGE**



ACTIVHEAL® NON ADHESIVE PHMB FOAM

ACTIVHEAL® PHMB FOAM SILICONE BORDER

 **ACTIVHEAL® PHMB FOAM RANGE**

activheal.com

PHMB IS A HIGHLY EFFECTIVE ANTIMICROBIAL WITH A BROAD SPECTRUM CAPABILITY.⁴

Wound care products that incorporate PHMB (polyhexamethylene biguanide) exhibit the following positive effects on wound healing¹:



Good clinical safety. No known risks of absorption, toxicity, low contact sensitisation



Target action on bacterial cells

PHMB

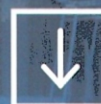
Sustainability of the active ingredient



To assist in the management of reducing the bacterial burden



Reduce wound malodour and wound pain



Reduce slough and non-viable tissue within the wound

(King&Barrett 2016,)

MODE OF ACTION

The ActivHeal PHMB Foam Range dressings are effective against gram negative, gram positive bacteria and yeast.

- ✓ PHMB binds to the negatively charged cell membrane
- ✓ Disrupts cell membrane and the cell integrity
- ✓ Ultimately causing the membrane to rupture.
- ✓ The bacterial debris is lifted into the foam dressing with the exudate.
- ✓ Onset of actions – within 30 minutes*



Want to find out more about ActivHeal PHMB Dressings? To watch our video, simply scan the QR Code with your mobile phone.

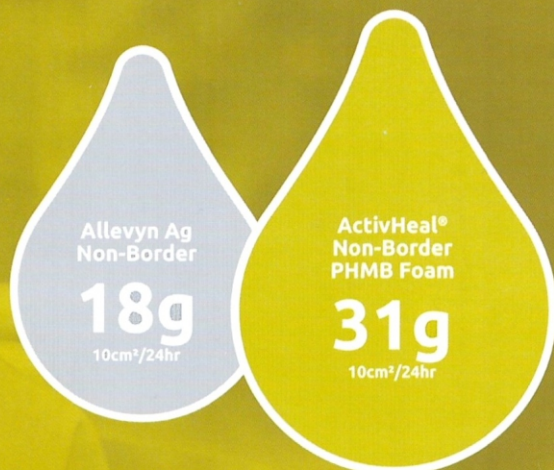
*PHMB agent based on in-vitro data.



ABSORBENCY

The ActivHeal PHMB foam range dressings have excellent total fluid handling ability.

PHMB FOAM NON-ADHESIVE



PHMB FOAM SILICONE BORDER



Total Fluid Handling Performance⁵

Be confident this foam can handle patient exudate.

Absorbency⁵

The perforations in the wound contact layer allow the uptake of exudate.

Breathable polyurethane bacterial barrier

Allows moisture to be transpired through the top of the dressing

Hydrophilic foam containing PHMB

Highly absorbent foam with antimicrobial action

Gentle silicone adhesive

Provides secure, non-irritating adhesion and supports non-traumatic removal during dressing changes

Hydrophilic foam containing PHMB

Highly absorbent foam prevents colonization and proliferation of bacteria within the dressing

Clear perforated acrylic film

Helps to stop adherence to the wound bed

Flexible, breathable backing film

Ensures that moisture can be transpired through the top of the dressing

Perforated wound contact layer

Allows exudate to pass through and supports non-traumatic removal

FEATURES

The ActivHeal® PHMB Foam Range provides versatile, conformable dressings for moderate to heavy exuding wounds.

High absorbency of exudate - that lessens the risk of leakage and can reduce the number of dressing changes
Reduces the risk of maceration - helps to protect the wound edges surrounding skin
Promotes healing through a moist wound environment - assists with wound healing progression
Sustained antimicrobial release and effectiveness for up to 7 days - helps prevent recolonisation
Effective against MRSA, VRE, Pseudomonas aeruginosa, Candida albicans* - helps to reduce local infection caused by these organisms
Conformable - adaptable to awkward areas

High absorbency - that lessens the risk of leakage and can reduce the number of dressing changes
Soft, flexible and conformable - comfortable to wear and can adjust to difficult anatomical areas
Waterproof and bacterial barrier - can shower with the dressing in situ
Perforated wound contact layer with a gentle silicone adhesive perforated film - protects the wound bed from adhering to the dressing
Supports non traumatic removal - assists with minimising trauma at dressing change
Effective against gram negative, gram positive and yeast - prevents colonization and proliferation of bacteria
Promotes a moist wound environment - assists with wound healing progression

INDICATIONS

The ActivHeal® PHMB Foam Range is indicated for moderately to heavily exuding wounds, for use in the management of:

PHMB FOAM NON-ADHESIVE

- Pressure ulcers
- Leg and foot ulcers
- Diabetic ulcers
- Surgical wounds

The ActivHeal® PHMB Foam Range can be used under compression

PHMB FOAM SILICONE BORDER

- Post-surgical incisions
- Pressure sores
- Venous stasis ulcers
- Diabetic ulcers
- Donor sites
- Abrasions
- 1st and 2nd degree burns
- Dermatologic disorders
- Other wounds inflicted by trauma
- As a secondary dressing or cover dressing for packed wounds
- Lacerations

The ActivHeal® PHMB Foam Range can be used under compression

GRANULATING

SLOUGHY

EPITHELIALISING

INFECTED

NECROTIC

FUNGATING

CAVITY



Dr. Device & Lab
D.D.L. Medical Supplies

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93100 Kuching, Sarawak, Malaysia
Tel: 019-6641255
Email: drdevicemed@gmail.com
Website: www.drdeviceclab.com

activheal.com

PERFORMANCE

ActivHeal® PHMB foam range has a fast, effective antimicrobial action.

PHMB FOAM NON-ADHESIVE



Log Reduction¹

8X faster log reduction against P-aeruginosa and S.aureus than silver foams.

● ActivHeal® PHMB Foam Non Adhesive ■ Allevyn Ag Foam Non Adhesive

Challenge Organism²

Total eradication of challenged organisms within 24 hours.

Time Period (hrs)	1hr	✓ MRSE	✓ S.epidermidis	✓ E.coli	✓ P.aeruginosa
2hrs		✓ MRSA	✓ S.pyogenes	✓ S.aureus	
6hrs		✓ VRE			
24hrs		✓ C.albicans			

The PHMB activity is effective for up to seven days, based on in-vitro testing.

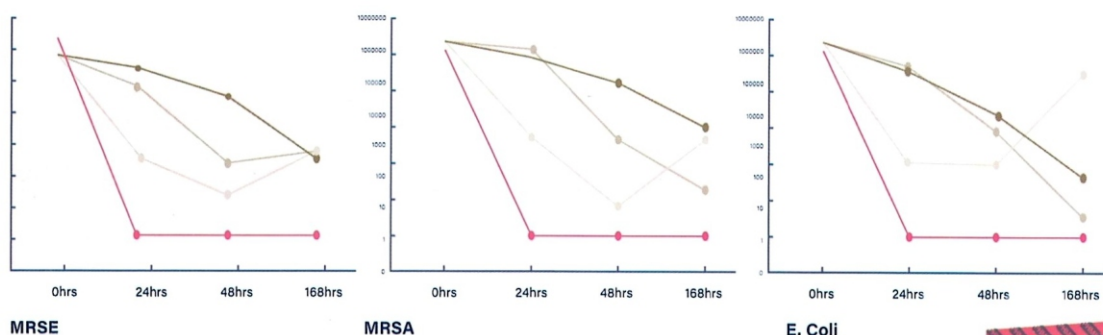
THE PHMB ACTIVITY IS EFFECTIVE FOR UP TO SEVEN DAYS, BASED ON IN-VITRO TESTING.



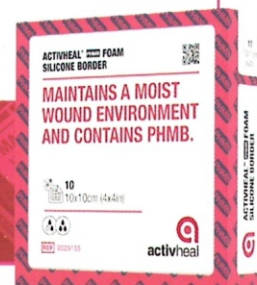
PHMB FOAM SILICONE BORDER

Fast and powerful - Kills 99.99% of bacteria, yeasts within 24 hours.³

● PHMB Foam Silicone Border ● Allevyn Ag Gentle Border
● Aquacel Ag Foam Border ● Mepilex Ag Border



FASTER ACTING COMPARED TO SILVER FOAMS.³





ACTIVHEAL®		PHMB FOAM NON-ADHESIVE
SIZE (CM)	QTY	PRODUCT CODE
5x5	10	9001630
7.5x7.5	10	9021348
10x10	10	9021355
10x20	10	9021362
15x15	10	9021379
20x20	10	9021386



ACTIVHEAL®		PHMB FOAM SILICONE BORDER
SIZE (CM)	QTY	PRODUCT CODE
8x8	10	9025148
10x10	10	9025155
12.5x12.5	10	9025162
10x20	10	9025179
15x15	10	9025186
20x20	10	9025193
Sacrel 18.5 x 19.5	10	9025209



A MULTI-TIERED WOUND CARE EDUCATION PROGRAMME DESIGNED TO SUPPORT CLINICIANS OF ALL LEVELS WITH EASILY ACCESSIBLE, ONLINE EDUCATION RESOURCES.



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References 1.AMS Data on File P2999R. 2.AMS Data on File P327R. 3.Lab data 6317, Lab data 7541. 4.Brenda King, Simon Barrett: PHMB Made Easy, Wounds UK, VOL 12 ISSUE 4 NOV 2016 5.AMS data on file LD017-15 & P2339R (P2412). 6.AMS Data on File P2999R. Mepilex is a trademark Molylncke, Aquacel is a trademark ConvaTec Inc, Allevyn is a trademark of Smith and Nephew.

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ACTIVHEAL® PHMB FOAM RANGE