



FIERCE AS YOU ARE

REMOVE BARRIERS TO HEALING
WITH WOUND MANAGEMENT BY B. BRAUN

Wound Management is much more than protocols and procedures. Every wound healing success requires discipline, patience and organization.

B.BRAUN is the right partner for those who challenge barriers of wound healing in any sense.

By providing a comprehensive range of products, B.BRAUN enables optimal healing for most type of wounds at every phase.

B.BRAUN offers more than a single product. It offers a unique combination of technologies to focus on and encompass Wound Infection, Exudate Management and Skin Care.

This guide will help you to find the optimal solution towards any wound challenge.

«Fierce as you are».

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Control and act

WOUND INFECTION

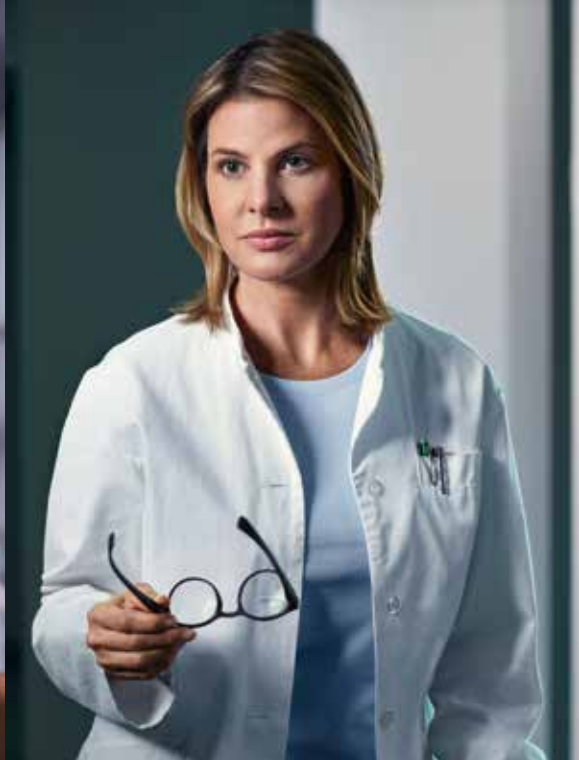
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Control and act

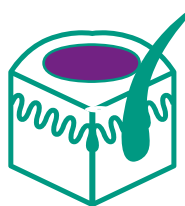
Acute and chronic wounds have a tendency to get infected and compromise the normal healing pathway, leading to a greater burden on health systems, long term disabilities and an overall reduction of a patient's quality of life.



WOUNDS

2,2 to 3 million
wounds in EU ⁽¹⁾

Increased prevalence
The population prevalence
of wounds in EU
is 3-4/1000 people.



BIOFILM

60% chronic wounds
with biofilms ⁽²⁾

60% of chronic wounds
contain biofilm with a role
in wound infection.



INFECTION

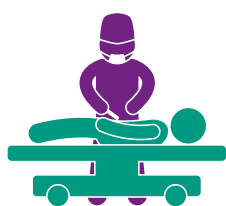
50% of chronic wounds
infected ⁽³⁾

Half of chronic wounds
are estimated to be infected.

1. J. Posnett, F. Gottrup, H. Lundgren and G. Saal: The resource Impact of wounds on health-care providers in Europe. J. Wound Care, Vol. 18, N°4, April 2009

2.T. Swanson et al: International Wound Infection Institute (IWII) Wound infection in clinical practice. Wounds International 2016

3.C. Dowsett: Adopting the two-week challenge in practice: making the case for silver dressings, Wounds UK, Vol. 10, N°2, 2014



SURGICAL SITE INFECTIONS

38% of all infections in surgical patients ⁽⁴⁾

SSI are considered the most frequent complication in surgical patients.



LENGTH OF STAY

3-20 days increase in LOS (SSI) ⁽⁵⁾

Surgical Site Infections increase the length of stay in hospitals by 3 to 20 days.



ESTIMATED COST

Up to **10 times** more cost for complications ⁽⁶⁾

Costs of healing increase as the time to heal is greater and the incidence of complications higher.

4. European Center for Disease Prevention and Control, Surveillance of surgical site infections in European hospitals –HAISSI protocol, version 1.02, 2012

5. World Health Organization: Hand Hygiene and the Surgical Patient Journey. http://www.who.int/gpsc/5may/EN_PSP_GPSC1_5May_2016/en/ (accessed Aug. 2016), 2016

6. G. Bennett, C. Dealey and J. Posnett: The cost of pressure ulcers in the UK, Age and Aging, 33, 2004

Prontosan® Wound Irrigation Solution

Prontosan® Wound Gel | Wound Gel X

Wound Bed Preparation Taken Seriously

INDICATIONS

Prontosan® Wound Irrigation Solution and **Prontosan® Wound Gel / Gel X** are indicated for cleansing and moistening of acute, chronic, infected skin wounds, 1st and 2nd degree burns (also 3rd degree for Prontosan Wound Gel X). They prevent the biofilm formation.

Prontosan® Wound Irrigation Solution is also ideal for moistening encrusted dressings, or bandages prior to removal and for instillation in combination with negative pressure wound therapy.

Prontosan® Gel and Gel X act as an effective barrier to reduce microbial penetration through the dressing and to decontaminate the wound bed between dressing changes.

ADVANTAGES

- Management and prevention of biofilm reformation ^{(1) (2)}
- Helps to prevent infections ⁽³⁾
- Improved patient outcomes, including time to heal ⁽⁴⁾
- Well-known substances with low allergenic potential ⁽⁵⁾
- Can be used up to 8 weeks after first opening



Prontosan® Wound Irrigation Solution may be used to saturate compresses, gauzes or pads for cleansing as needed. Application should be conducted frequently in order to achieve and maintain an visually clean wound.



For application in deep or tunneling wounds, wound cavities and difficult to access areas, apply a 3–5 mm layer of **Prontosan® Wound Gel** and cover with a secondary dressing.



For large surface area wounds apply a 3–4 mm layer of **Prontosan® Wound Gel X** and cover with a secondary dressing.

Prontosan®	Size	Pcs/Pack
Pod	40 ml	24
Bottle	350 ml	1
Bottle	1,000 ml	1
Prontosan®		
Wound Gel	30 ml	1
Wound Gel X	50 g	1
Wound Gel X	250 g	1

Lit. References:

1. Efficacy of various wound irrigation solutions against biofilms. Seipp HM, Hofmann S, Hack A, Skowronsky A, Hauri A, ZfW 2005;4(5):160-163.
2. Davis SC, Harding A, Gil J, Parajon F, Valdes J, Solis M Et Higa A "Effectiveness of a polyhexanide irrigation solution on methicillin-resistant Staphylococcus aureus biofilms in a porcine wound model" in International Wound Journal ISSN 1742-4801, 2017, 1-8, © 2017 Medicalhelplines.com Inc and John Wiley & Sons Ltd doi: 10.1111/iwj.12734.
3. Moore, M 0.1% Polyhexanide-Betaine Solution as an Adjuvant in a Case-Series of Chronic Wounds, Surg Technology International, 2016.
4. Bellingeri, A. et al. "Effect Of A Wound Cleansing Solution On Wound Bed Preparation And Inflammation In Chronic Wounds: A Single-Blind RCT". Journal of Wound Care 25.3 (2016): 160-168. Web.
5. Evaluation of the efficacy and tolerability of a solution containing propyl betaine and polihexanide. Romanelli M, Dini V, Barbanera S, Bertone MS. Skin Pharmacol Physiol 2010;23(Suppl 1):41-44.

Prontosan® Debridement Pad

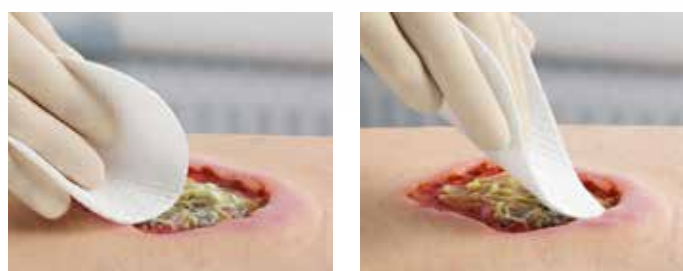
Soft mechanical removal of slough and debris

INDICATIONS

Prontosan® Debridement Pad has been designed to support the Wound Bed Preparation with Prontosan® Wound Irrigation Solution. **Prontosan® Debridement Pad** frees the wound from coatings and dead cell residues (debris) and absorbs excess exudates and slough. Intact tissue is spared. **Prontosan® Debridement Pad** produces good results even with scaly and necrotic coatings, if they are subject to prior autolytic treatment.

ADVANTAGES

- Good cleansing and debridement due to microfiber technology Soft debridement, no tissue irritation
- Unique droplet shape to allow debridement of cavities and areas difficult to reach
- Blister packaging to allow safe and aseptic soaking of the pad prior to use
- Cleansing sheet composed of polyester and polypropylene microfiber supported by a backing layer made from polypropylene.



APPLICATION

The unmarked side of the pad has to be moistured with 15 – 20 ml of **Prontosan® Wound Irrigation Solution***. If local guidelines exist, they have to be followed. Apply gentle pressure, wipe the moistured side over the wound and / or adjacent skin in a circular motion.

Following debridement, it is advisable to irrigate the wound thoroughly for a second time with **Prontosan® Wound Irrigation Solution** and to continue with standard treatment.

Prontosan® Debridement Pad	Pcs/Pack	Reference
	3	3908456
	10	3908457

Askina® Calgitrol® Ag | Askina® Calgitrol® THIN

Wound dressings with broad antimicrobial effectiveness ⁽¹⁾

Askina® Calgitrol® patented ionic silver alginate matrix

Same technology, different presentations adapted to wound bed type


INDICATIONS ⁽¹⁾

Askina® Calgitrol® Ag, Askina® Calgitrol® THIN, Askina® Calgitrol® Paste are indicated for the management of exuding, partial to full thickness wounds, stage I-IV pressure sores, venous ulcers, second degree burns and donor sites.

Askina® Calgitrol® Paste is ideally suited for the management of tunnel wounds and small sinuses like in diabetic foot ⁽⁴⁾.

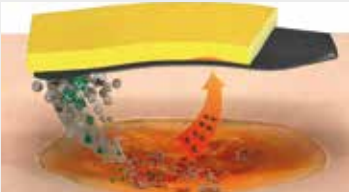
ADVANTAGES

- Broad antimicrobial effectiveness ⁽¹⁾
- Immediate availability of silver ions ⁽²⁾
- Sustained controlled release to the wound bed during use of the dressing ⁽²⁾
- Tolerable ⁽³⁾
- Easy to use, conformable ⁽⁴⁾



Askina® Calgitrol® Ag is a sterile dressing consisting of two layers:

- an absorbent polyurethane foam layer for the absorption of wound exudate
- an ionic silver alginate matrix for broad antimicrobial effectiveness and helps reduce the bacterial load



In contact with wound exudate, the Calgitrol® ionic silver alginate matrix forms a soft gel allowing the liberation of silver ions.



Askina® Calgitrol® THIN is a thin layer of ionic silver alginate matrix. Soft and conformable, it is well adapted for deep and difficult-to-dress wounds.



Askina® Calgitrol® THIN is also suitable for cavity wounds

Askina® Calgitrol® Ag	Size	Pcs/Pack	Reference
	10 x 10 cm	10	6211010
	15 x 15 cm	10	6211510
	20 x 20 cm	10	6212010
Askina® Calgitrol® THIN			
	5 x 5 cm	10	6205510
	10 x 10 cm	10	6201010
	10 x 20 cm	10	6202110
	20 x 20 cm	10	6202010
	20 x 40 cm	3	6202403

1. Instruction for use: Askina® Calgitrol® Ag, Askina® Calgitrol® THIN, Askina® Calgitrol® Paste.

2. Opananon S, Magnette A, Meuleniére F, Harding K. Askina® Calgitrol® Made Easy. Wounds International 2012; 3(1). Available from www.woundsinternational.com

3. Trial C, Darbas H, Lavigne J-P, Sotto A, Simoneau G, Tillet Y, et al. Assessment of the antimicrobial effectiveness of a new silver alginate wound dressing: a RCT. J Wound Care. 2010 Jan;19(1):20-6.

4. Wounds International. Using Askina® Calgitrol® Paste for the treatment of diabetic foot infection: case studies. London: Wounds International 2013. Available from www.woundsinternational.com

Askina® Calgitrol® Paste

Paste with broad antimicrobial effectiveness ⁽¹⁾

Askina® Calgitrol® patented ionic silver alginate matrix

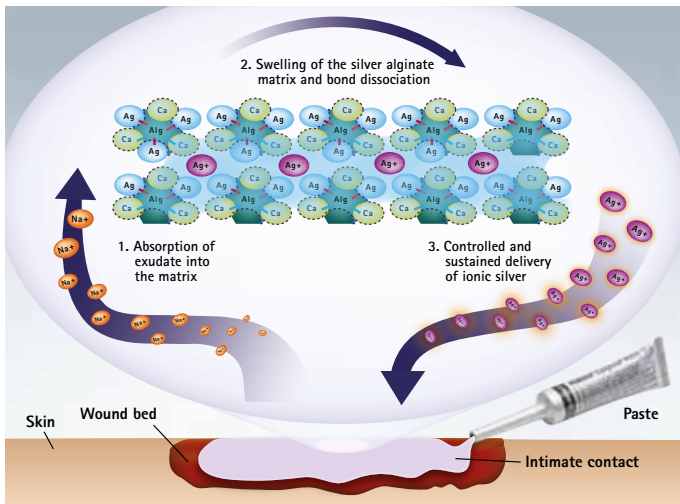
Same technology, different presentations adapted to wound bed type



Askina® Calgitrol® Paste

Its conformability allows an extremely close contact between the active ionic silver alginate matrix and the wound bed, which is particularly valuable in difficult to manage wounds such as tunnels and sinuses

MODE OF ACTIONS



Moisture absorption through the matrix leads to softening and swelling of the alginate structure, which facilitates controlled and steady state release of ionic silver into the wound.

HOW TO APPLY

- Shake the tube/jar prior to use
- Apply a thick layer of the paste to the entire surface
- Completely cover the wound surface. Askina® Calgitrol® Paste is easy to apply and stays in the wound.
- Cover with an appropriate secondary dressing



Askina® Calgitrol® Paste	Size	Pcs/Pack	Reference
Tube	15 g	5	6241505
Tube	100 g	1	6241001
Jar	250 g	1	6242501
Jar	500 g	1	6245001

Treat and care

Managing chronic wounds is very challenging for all hospital and community nurses. There is potential for better patient management and better wound care, such as effective diagnosis, treatment and prevention of wound complications.

This can help minimise treatment costs, so there is more time free to care for the patient.



BURDEN

1,5 to 2 million wounds in EU ⁽¹⁾

Increasing burden

By 2025, the population of the EU 27 aged 65 and above is expected to increase by 25.5m (13%), compared with an increase of just 1% in the population as a whole.



CHRONIC WOUNDS

Up to **85%** leg ulcers treated in community ⁽²⁾

Community treatment

Any patient with a leg ulcer needs to be holistically assessed by a competent practitioner, usually the nurse, and have a tailored treatment.



PAIN

50% of chronic wounds patients ⁽³⁾

Painful wounds

Pain is present in almost half of patients with chronic wounds.

1. J Posnett et al. The Resource Impact of Wounds on Health-care Providers in Europe. *Journal of Wound Care*, 2009; 18(4):154-161

2. C Lindholm et al. Chronic wounds and nursing care. *Journal of Wound Care*, 1999; 8(1)5-10

3. J Guest et al. Health economic burden that wounds impose on the National Health Service in the UK. *BMJ Open*, 2015;5:e009283. doi: 10.1136/bmjopen-2015-009283



NURSING TIME

Up to **50%** of nursing community time ⁽⁴⁾

Almost half of nursing time is dedicated to the management of chronic wounds.



IMPACT

3% of total health expenditures ⁽⁵⁾

Chronic wounds cause pain, loss of function and mobility, depression, distress and anxiety, embarrassment, social isolation and prolonged morbidity.

4. H Edwards et al. Health service pathways for patients with chronic leg ulcers: identifying effective pathways for facilitation of evidence based wound care. BMC Health Services Research, 2013; 13(86), <https://doi.org/10.1186/1472-6963-13-86>

5. K Järbrink et al. Prevalence and incidence of chronic wounds and related complications: a protocol for a systematic review. Systematic Reviews, 2016; 5(1):152

Askina® Foam | Askina® Foam Cavity

Askina® Trachea

Hydrophilic foam dressings

INDICATIONS

Askina® Foam is indicated for the management of moderate exuding wounds, partial to full thickness wounds

- Pressure ulcers
- 1st and 2nd degree burns
- Venous and arterial leg ulcers
- Diabetic foot ulcers

ADVANTAGES

- Fluid handling characteristics
- Maintain a moist environment



Askina® Foam is a two layered non-adherent foam dressing consisting of a soft hydrophilic polyurethane breathable foam layer and a thin, transparent, protective polyurethane film.

- Fluid handling capacity, waterproof and bacteria resistant
- Prevention of skin breakdown
- In case of venous leg ulcers, may be used under compression therapy⁽¹⁾



Askina® Foam Cavity is made of the same foam material as Askina® Foam, without the polyurethane backing. The specific shape, absorption capacity and resistance makes it ideal for dressing deep, highly exuding wounds.

- Deep cavity wounds
- Sinuses
- Wound tunnels



Askina® Trachea is a sterile, hydrophilic foam dressing that includes a polyurethane foam wound contact surface with the circular aperture designed to fit neatly around a tracheostomy tube or other drain or stoma.

- Absorbent apertured foam dressing for the stoma created by tracheostomy or for wound drainage sites.

Askina® Foam	Size	Pcs/Pack	Reference
	5 x 7 cm	10	7240710
	10 x 10 cm	10	7241010
	10 x 20 cm	10	7241210
	20 x 20 cm	5	7242005
Askina® Foam Cavity			
	2,5 x 40 cm	10	7244010
Askina® Trachea			
	9,5 x 8,5 cm	10	7248510

1. Instruction for use: Askina® Foam, Askina® Foam Cavity, Askina® Trachea, Askina® Heel

Askina® Heel

Hydrophilic foam dressings

Anatomically shaped hydrocellular heel dressing

ADVANTAGES

- Ready to use concept
- Innovative anatomical design covering the malleolus
- Pressure reducing foam, helps prevent stage I ulcers ⁽¹⁾
- Good protection against friction and shear stresses

Askina® Heel is an anatomically shaped, two layered, non adherent foam dressing, which includes a securement foam strap and two self adhesive hooks that allow dressing to remain in place even during movement.

- Stage I – IV pressure ulcers
- Surgical incisions
- 1st and 2nd degree burns



HOW TO APPLY

- 1 Apply self adhesive labels on each side of **Askina® Heel**
- 2 Apply the dressing gently on the heel area and fix with the strap
- 3 Correctly positioned **Askina® Heel**: the ankle is covered
- 4 The dressing can be also fixed with a compression stocking

Askina® Heel	Size	Pcs/Pack	Reference
	surface = 225 cm ²	5	7240105

Askina® DresSil

Foam dressings with silicone adhesive

INDICATIONS ⁽¹⁾

Askina® Dressil, Askina® Dressil Border, Askina® Dressil Heel, and Askina® Dressil Sacrum are indicated for the management of moderately exuding, partial to full thickness wounds such as:

- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers
- Diabetic foot ulcers
- 1st and 2nd degree burns
- Donor sites
- Skin tears

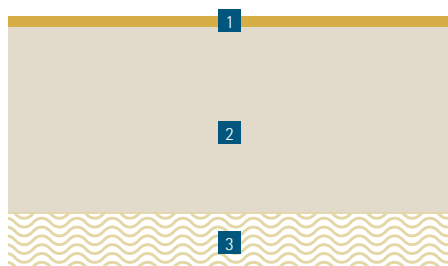
ADVANTAGES

The silicone adhesive layer provides several advantages:

- Gentle and secure adherence
- Minimized trauma during dressing changes ⁽¹⁾
- Good adaptability on difficult-to-dress areas and skin contours
- Can be cut to shape
- Improves patient comfort ⁽²⁾



Askina® DresSil is a self adherent foam dressing with soft silicone adhesive on one side and a vapour permeable waterproof film on the other. It combines the absorption capacity of the foam with the soft adhesion of the silicone contact layer.



STRUCTURE OF THE DRESSING

- 1 Protective polyurethane film • Highly breathable
- 2 Hydrophilic foam layer • Soft and conformable
- 3 Silicone adhesive layer • Safe adhesion to the surrounding skin for an atraumatic removal



EXAMPLE OF USE

Askina® DresSil may be used in conjunction with compression therapy ⁽³⁾

Askina® DresSil	Size	Pcs/Pack	Reference
	5 x 7 cm	10	5295710
	10 x 10 cm	10	5291010
	15 x 15 cm	10	5291510
	10 x 20 cm	10	5291210
	20 x 20 cm	5	5292005

1. Thomas S Atraumatic dressings. WorldWideWounds, 2003

2. Meuleneire F, Rücknagel H Soft Silicone Made Easy, Wounds International, May 2013

3. Instruction for use: Askina® Dressil, Askina® Dressil Border, Askina® Dressil Heel, Askina® Dressil Sacrum

Askina® DresSil Border

Foam dressings with silicone adhesive

Additional adhesive border for extra security



ADVANTAGES

Specially adapted for difficult-to-dress or moving areas (knees, elbows, skin folds)

Askina® DresSil Border has the same structure as Askina® DresSil, with an additional 1.5 cm large adhesive border.



ADVANTAGES

- Specifically designed for diabetic foot ulcer
- Shaped island foam
- Suitable for small, deep wounds (diabetic foot ulcers)



Special note

- Askina® DresSil Border allows the patient to take a shower

Askina® DresSil	Size overall dressing foam island	Pcs/Pack	Reference
Border	6 x 6 cm 3 cm Ø	10	5396610
	7,5 x 7,5 cm 4,5 x 4,5 cm	10	5397510
	10 x 10 cm 7 x 7 cm	10	5391010
	10 x 20 cm 7 x 17 cm	10	5391210
	15 x 15 cm 12 x 12 cm	10	5391510
	15 x 20 cm 12 x 17 cm	10	5395210
	20 x 20 cm 17 x 17 cm	5	5392005

Askina® DresSil Sacrum

Foam dressings with silicone adhesive



ADVANTAGES

- Gentle and secure adherence
- Minimized trauma during dressing changes ⁽¹⁾
- Good adaptability on difficult-to-dress areas and skin contours
- Improves patient comfort
- Pressure ulcers
- Skin tears

Askina® DresSil Sacrum coated with silicone all over the foam to allow intimate contact.

SPECIAL NOTE

- Dressing changes will depend entirely upon the state of the wound and the amount of exudate

Askina® DresSil	Size overall dressing	foam island	Pcs/Pack	Reference
Sacrum	16 x 17,5 cm	13 x 14,5 cm	5	5491605
	21 x 22 cm	17 x 18 cm	5 10	5492105 5492110

1. Thomas S Atraumatic dressings. WorldWideWounds, 2003

Askina® DresSil Heel

Anatomically shaped foam dressing with silicone adhesive

ADVANTAGES

- Atraumatic dressing removal ⁽¹⁾
- Good absorption capacity
- Soft and conformable
- Self adherent no need for secondary fixation
- Showerproof

Askina® DresSil heel can also be used for preventing pressure ulcers

- Protects the heel and the malleolus



HOW TO POSITION

- 1 Remove the transparent top liner that is protecting the two "ears"
- 2 Position the foot on the dressing
- 3 Cover the ankle with the "ears" of the dressing
Remove the transparent lower liner
- 4 Wrap and cover the heel with the lower part of the dressing

Askina® DresSil	Size overall dressing foam island	Pcs/Pack	Reference
Heel	22 x 21,6 cm 18,9 x 18,5 cm	5	5592205

Prevent, protect and repair

The periwound skin is particularly fragile and although it may appear healthy, periwound problems occur frequently. Clinicians caring for patients with wounds recognise that they have a key role to play in preventing periwound skin disorders that may adversely affect a patient's quality of life.

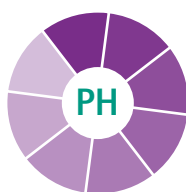


MOISTURE

Overhydration

Causes swelling & disruption of stratum corneum ⁽¹⁾

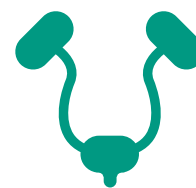
After exposure to excessive moisture, the skin becomes damp, soggy and clammy, its permeability can be breached and it is susceptible to physical damage from friction and shearing forces.



ALKALINITY

pH of the skin increases due to urine and faeces ⁽²⁾

The increase in the normal acidic pH of the skin (4–6.8) due to the alkalinity of urine and faeces encourages bacterial colonisation.



INCONTINENCE

27% incontinence associated dermatitis ⁽³⁾

Incontinence-associated dermatitis, a clinical manifestation of moisture-associated skin damage is a common consideration in patients with fecal and/or urinary incontinence.

1. D Beeckman et al. Proceedings of the Global IAD Expert Panel. Incontinence associated dermatitis: moving prevention forward. Wounds International 2015. Available to download from www.woundsinternational.com

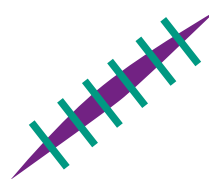
2. K Ousey et al. The identification and management of moisture lesions. Wounds UK, 2012; Moisture Lesions Supplement. Wounds UK, London



SCARS

100 million
patients develop scars ⁽⁴⁾

A total of 100 million patients develop scars in the developed world alone each year as a result of 55 million elective operations and 25 million operations after trauma.



ABNORMAL SCARRING

40% to 70%
hypertrophic scarring ⁽⁴⁾

Incidence rates of hypertrophic scarring vary from 40% to 70% following surgery depending on the depth of the wound.

3. All Party Parliamentary Group on Skin. Report on the Enquiry into Skin Diseases in Elderly People. 2000; Associate Parliamentary Group on Skin, London

4. G Gauglitz et al. Hypertrophic Scarring and Keloids: Pathomechanisms and Current and Emerging Treatment Strategies. Molecular Medicine, 2011; 17(1-2):113-125

Linovera®

Solution of hyperoxygenated fatty acids

INDICATION

- Prevention and treatment of stage I pressure ulcers

ADVANTAGES

The vegetable extracts – aloe vera and *Centella asiatica* – have major protecting and healing effect on the skin:

- Restores capillary circulation ⁽¹⁾
- Stimulates the synthesis of collagen ⁽¹⁾
- Has a hydrating and healing effect ⁽²⁾



COMPOSITION

- Hyperoxygenated essential fatty acids (linoleic acid)
- Tocopherols
- Aloe Vera
- *Centella asiatica*
- Aroma

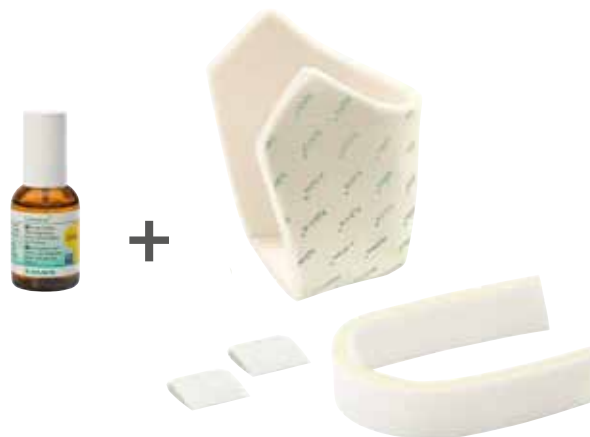


Centella asiatica



HOW TO APPLY

- Spray **Linovera®** 2 - 3 times a day on the affected area and rub in softly to evenly distribute the product until it is fully absorbed



SPECIAL NOTE

- Use in combination with **Askina® Heel** for optimal protection for non broken skin of the heel area against pressure ulcers

Linovera®	Size	Pcs/Pack	Reference
GB ES PT IT	30 ml	1	467933
Linovera® Oil – Cosmetics			
GB (for non european countries)	50 ml	1	481187

1. Cravotto G. et al. An evaluation of the potential of 1000 plants. Journal of Clinical Pharmacy and Therapeutics, 2010 35:1:11-48

2. M. De Pera, Evic Hispania (Barcelona, Spain), Assessment of moisturizing effect in humans, Study report n°05- 0144/1/05.0137, 22 Mar 2005

Askina® Barrier Film | Askina® Barrier Cream

Breathable skin barrier | Protectant and moisture barrier



Askina® Barrier Film is a rapid drying, transparent, breathable skin barrier.

INDICATIONS

Askina® Barrier Film is indicated for use on intact or damaged skin and acts as a protective barrier:

- Against irritation from bodily fluids
- For sensitive and fragile skin
- Under adhesive dressings to reduce disruption to newly healing tissue
- For damaged skin
- For skin tears
- To protect periwound and peristomal areas
- For small cuts and tears
- At fixation sites for drainage tubes and external catheters



Askina® Barrier Cream is a white concentrated cream which forms a protective layer when applied to the skin.

Askina® Barrier Cream is indicated for use on intact skin and acts as a protectant / moisture barrier:

- Against maceration caused by incontinence or body fluids
- To protect sensitive, fragile and severely dry skin, including periwound areas
- To prevent skin irritation.

HOW TO APPLY



Askina® Barrier Film

- Hold the spray nozzle 10 – 15 cm from the skin, press the spray nozzle and apply a smooth coating of film over the necessary area
- Allow the film to dry for 30 seconds



Askina® Barrier Cream

- Dry the skin thoroughly before application
- Spread Askina® Barrier Cream thinly to cover the affected area
- On frequently cleansed skin, daily reapplication may be required

Askina® Barrier Film	Size	Pcs/Pack	Reference
Spray Bottle	28 ml	1	4002801
Askina® Barrier Cream			
Tube	92 g	1	4119201

Askina® Scar Repair

Soft silicone dressing for scar management

INDICATIONS

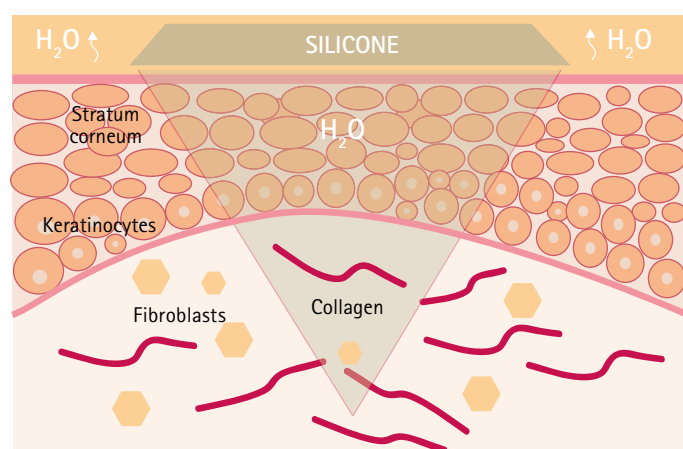
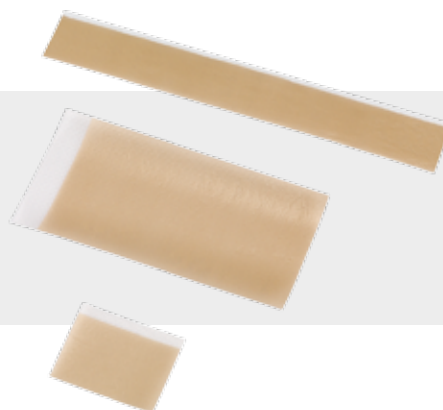
Askina® Scar Repair is indicated for:

- Management of hypertrophic and keloid scars
- Prevention of hypertrophic or keloid scarring after surgery on closed wounds

ADVANTAGES

The benefits of soft silicone self-adhesive and occlusive sheets like Askina® Scar Repair are:

- Prevents the formation of excessive scar tissue proven to be the most efficient non-invasive scar treatment. ⁽⁴⁾
- Reduces redness, itching and the feeling of tension.
- Has been designed to smoothen old scars.
- Easy to use:
 - Thin and comfortable,
 - Can be used on various anatomical locations.
- Cost-effective: reusable, without extra fixation.
- Offers ultra-violet protection ⁽⁵⁾



HOW DOES IT WORK?

- The occlusive properties of Askina® Scar Repair allow for the maintenance of optimal level of skin hydration.
- This influences positively the remodeling process beneath the skin surface and prevents the formation of excessive scar tissue ^{(6) (7)}.

DON'T HIDE, MAKE YOUR SCAR LESS VISIBLE

Did you know that there is **50% risk of abnormal scarring** ⁽¹⁾ for any scar which forms after a surgical intervention? Did you know that **children and young persons are at higher risk of developing hypertrophic scars** compared to general population, because of more intense production of collagen? ⁽²⁾

HYPERTROPHIC, RED, OR KELOID SCAR IS A HUGE BURDEN FOR A PATIENT.

To minimize the risk of abnormal scarring and obtain the best esthetic effect it is important to advise your patient to respect prevention measures from the very start of a remodeling process, as soon as the wound is completely closed. ⁽³⁾



Caesarean section



Closed surgical wounds



Closed traumatology wounds



Hypertrophic scar after surgery



Askina® Scar Repair	Size	Pcs/Pack	Reference
	5 x 7,5 cm	5	5695705
	4 x 30 cm	5	5694305
	10 x 18 cm	5	5691805
	2 x 14 cm	3	5691403

1. McCarty M., Del Rosso J., An evaluation of evidence regarding application of silicone gel sheeting for the management of hypertrophic scars and keloids, J Clin Aesthet Dermatol., 2010; 3(11): 39-43

2. Sharma M., Wakure A., Scar revision, Indian J Plast Surg, 2013; 46(2): 408-418

3. Meaume S., The medical treatment of Scars, SOINS, 2013: 34 -37

4. Monstrey S., et al, Updated scar management practical guidelines: Non-invasive and invasive measures, J Plast Reconstruct Aesthet Surg., 2014; 67: 1017-1025

5. IFU Askina® Scar Repair

6. Mustoe T., Gurjala A., The role of the epidermis and the mechanism of action of occlusive dressings in scarring, Wound Repair Regen., 2011; 19(01):s16-s21

7. Choi J., et al., Regulation of transforming growth factor B1, platelet-derived growth factor, and basic fibroblast growth factor by silicone gel sheeting in early-stage scarring, Arch Plast Surg, 2015; 42: 20-27

*Healing process is influenced by many individual factors. It is difficult to predict the result of scarring process.

Basic range

Additional technologies to support wound healing at every phase

NECROTIC

DRY FIBRIN

MOIST FIBRIN



Askina® Gel
Hydrogel



Askina® Sorb
Alginate



Askina® Derm
Polyurethane film



Askina® Silnet
Silicone wound contact layer

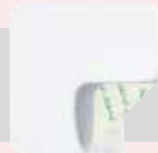
GRANULATION

EPITHELIALIZATION

INFECTION



Askina® Transorbent
Foam with dry hydrogel



**Askina® Biofilm
Transparent**
Hydrocolloid

Askina® Absorb+
Superabsorbent



Askina® Hydro
Hydrocolloid



**Askina®
THINsite**
Dry hydrogel

Askina® Derm
Polyurethane film



Askina® Carbosorb
Charcoal dressing



**Braunovidon®
Ointment**
Antiseptic



Askina® Gel

Hydrogel wound dressing

INDICATIONS

Askina® Gel provides a moist environment at the wound surface, assists in the debridement and removal of necrotic and other devitalised material from low exuding wounds.

Askina® Gel can be used to soften and hydrate necrotic tissue, helping to rehydrate dry granulating wounds.

ADVANTAGES

- Easy one-hand application, from any position
- Remains in place after application
- A special cannula to facilitate application with **Askina® Gel** 15g
- Clear gel, allows accurate wound assessment

Askina® Gel	Size	Pcs/Pack	Reference
	15 g	5	001419 S
	15 g	10	001419 N
	100 g	1	0014291



NECROTIC TO DRY FIBRIN

Askina® Sorb

Highly absorbing alginate dressing



MOIST FIBRIN

ADVANTAGES

- Conformable and easy to apply
- High absorption capacity
- Forms a soft gel which can be removed in one piece, without residue
- Vertical absorption process
- No lateral strike through
- Designed for avoiding wound maceration
- Atraumatic dressing removal

INDICATIONS

Askina® Sorb is a sterile primary wound dressing made of fibers containing 85 % of calcium alginate and 15 % of carboxymethylcellulose (CMC). **Askina® Sorb** is ideally suited for the management of moderate to heavily exuding wounds such as Pressure ulcers, Venous/Arterial leg ulcers, Diabetic foot ulcers, Trauma wounds, Dermal Lesions.

Askina® Sorb	Size	Pcs/Pack	Reference
Dressing	6 x 6 cm	10	2115S
	6 x 6 cm	15	2100S
	10 x 10 cm	3	2107S
	10 x 10 cm	10	2116S
	10 x 10 cm	15	2101S
	15 x 15 cm	3	2108S
	15 x 15 cm	10	2102S
Flat Rope	2,7 x 34 cm	10	2105S

Askina® Absorb+

Superabsorbent non-adherent wound dressing



INDICATIONS

Askina® Absorb+ is a highly absorbing dressing which can retain and lock large amounts of wound exudate. It is indicated for moderately to heavily exuding wounds such as Pressure ulcers, Venous and arterial leg ulcers, Diabetic foot ulcers, 1st and 2nd degree burns and Traumatic wounds.

ADVANTAGES

- High, long lasting absorption capacity
- High retention (no sponge effect)
- Gradual absorption without "Gel Lock"
- Remains soft and flexible even when saturated
- Low adherent wound contact surface
- No "dry spill" of superabsorbent material

Askina® Absorb+	Size	Pcs/Pack	Reference
	10 x 10 cm	10	3331010
	10 x 10 cm	10	3331210
	20 x 20 cm	5	3332005

Askina® SilNet

Soft silicone wound contact layer



INDICATIONS

Askina® SilNet is indicated for the management of a wide range of wounds, partial to full thickness, such as second degree burns, skin grafts, donor sites, post-operative wounds, skin tears, lacerations, stage I - IV pressure ulcers, venous, arterial and neuropathic ulcers.

ADVANTAGES

- Non-adherent: protects fragile granulation tissue
- Atraumatic dressing changes ⁽¹⁾
- Soft and conformable
- Allows exudate passing through the dressing
- Either side can face the wound



Askina® SilNet	Size	Pcs/Pack	Reference
	5 x 7,5 cm	10	5195710
	10 x 7,5 cm	10	5197510
	10 x 18 cm	10	5191810
	20 x 30 cm	5	5192305

Askina® Transorbent®

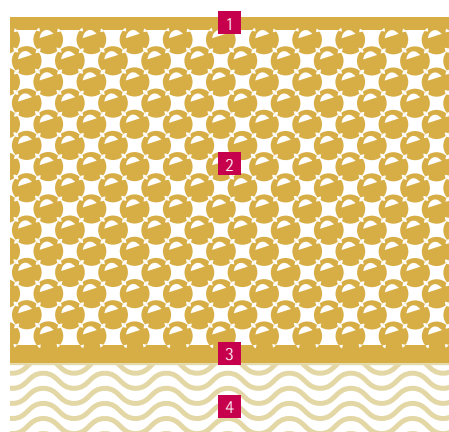
Foam dressing with dry hydrogel layer



GRANULATION

INDICATIONS

Transorbent® is indicated for Pressure ulcers, Venous and Arterial leg ulcers, Diabetic foot ulcers, 1st and 2nd degree burns and help to prevent skin breakdown.



STRUCTURE

- 1** Thin polyurethane film layer
Impermeable to liquids and bacteria but vapour permeable.
- 2** Foam layer
Provides a means of escape for vapour moisture giving the dressing its comfort, smoothness and conformability.
- 3** Dry hydrogel layer
Absorbs wound exudate and preserves a moist healing environment. Excess exudate is evaporated through the foam and backing film.
- 4** Adhesive layer
Sticks to the intact and dry surrounding skin but not to the wound surface.

ADVANTAGES

- Does not stick to the wound surface
- No maceration or residue
- Can be cut into individually adapted sizes and into shapes

Askina® Transorbent®	Size	Pcs/Pack	Reference
	5 x 7 cm	10	0072786 R
	10 x 10 cm	5	0072789 U
	15 x 15 cm	5	0072790 V
	20 x 20 cm	5	0072791 W



GRANULATION

Askina® Transorbent® Sacrum

Triangular shape adapted for use on sacral area.

- Safe adhesion of the borders ensures protection of the skin against bodily fluids
- The cushioning effect of the foam layer helps prevent pressure ulcers

Askina® Transorbent® Sacrum	Size	Pcs/Pack	Reference
	16 x 18 cm 12 x 14 cm	3	0072795Z
	18 x 20 cm 15 x 16,5 cm	5	0072792X
	18 x 20 cm 15 x 16,5 cm	10	0072799X

Askina® Hydro

Hydrocolloid dressing

INDICATIONS

Askina® Hydro may be used for the management of moderately to heavily exuding, partial to full thickness wounds such as Venous leg ulcers, Arterial ulcers, Pressure ulcers, Burns 1st and 2nd degree, Donor sites and Abrasions.



Askina® Hydro	Size	Pcs/Pack	Reference
	10 x 10 cm	10	F72041
	15 x 15 cm	10	F72045
	20 x 20 cm	10	F72047

Askina® Biofilm® Transparent

Transparent hydrocolloid dressing

INDICATIONS

Askina® Biofilm® Transparent is a thin sterile transparent hydrocolloid dressing for moist wound treatment with the capacity to manage low exuding superficial chronic wounds (e.g pressure ulcers, leg ulcers), superficial acute wounds (1st and 2nd degree burns, abrasions), post operative wounds.



Askina® Biofilm® Transparent	Size	Pcs/Pack	Reference
	15 x 15 cm	10	F72097
	20 x 20 cm	10	F72098

ADVANTAGES

- Thin design that fits any body contours
- Transparent, allows visual control of the wound
- Easy to apply

Askina® THINSite

Thin absorbing dressing with dry hydrogel technology

INDICATIONS

Askina® THINSite is a thin sterile multilayered hydrocellular dressing indicated for the management of partial and full thickness wounds, Stage I-IV pressure ulcers, arterial and venous stasis leg ulcers, and to aid in the prevention of skin breakdown.

ADVANTAGES

- Conforms and compensates for difficult anatomical contours
- During patient movement, helps prevent bunching or rolling
- Allows visual inspection of absorbed exudate
- An adhesive layer that bonds to the intact skin but is non-adherent to the wound.



EPITHELIALIZATION

Askina® THINSite	Size	Pcs/Pack	Reference
	10 x 10 cm	10	0072888T
	15 x 15 cm	10	0072894V

Askina® Derm

Polyurethane film dressing

INDICATIONS

Askina® Derm is indicated for the treatment of minor burns, donor sites, pressure areas, post-operative wounds, abrasions and lacerations.

Askina® Derm is also used as protection against skin breakdown due to friction or continuous exposure to moisture.

ADVANTAGES

- Maintains a moist environment
- Prevents scab formation
- Easy to apply
- High MVTR film
- Impermeable to liquids and bacteria
- Transparent: allows visual wound inspection

Askina® Derm	Size	Pcs/Pack	Reference
	6 x 7 cm	10	F72032
	6 x 7 cm	100	F72033
	10 x 12 cm	5	F72034
	10 x 12 cm	10	F72035
	10 x 12 cm	50	F72036
	10 x 20 cm	10	F72037
	15 x 20 cm	10	F72038
	30 x 20 cm	10	F72039



NECROTIC, FIBRIN AND EPITHELIALIZATION



HOW TO APPLY

- 1 Remove the printed release paper from the adhesive side of the dressing.
- 2 Place the dressing over the wound site with the tabs on the adhesive side facing toward the wound. Gently pressure to the dressing as it attaches to the wound. Slowly peel away the tabs and gently apply the remainder of the dressing to the surrounding dry skin.
- 3 Once the dressing is secured remove the plastic carrier by peeling the tabs in the direction of the arrows.

Braunovidon® Ointment

Antiseptic skin and wound treatment

INDICATIONS

Braunovidon® Ointment is an antiseptic treatment for damaged skin (e.g pressure sores, diabetic ulcers), surface wounds/burns and infected dermatosis.

ADVANTAGES

- Spreads easily due to soft fluid consistency
- Liquefies at body temperature
- The greaseless Braunovidon® Ointment formulation is compatible with most wound dressings (except for silver-containing dressings)
- Active against bacteria and fungi (including MRSA)

* The descriptions of the Braunovidon® products have been produced on the basis of their German authorisations as medicinal products. Both the product names and the authorised indications can vary from one country to another. For exact information, the countryspecific summary of product characteristics should always be consulted. Mandatory information for advertising see page 58.



INFECTION

Braunovidon®	Size	Pcs/Pack	Reference
Ointment			??
Tube	20 g	1	?
Tube	100 g	1	?
Tube	250 g	1	?
Pot	250 g	1	?

Ingredients Ointment:
10.0 g povidone-iodine (1.0 g available iodine, active ingredient) per 100 g;
macrogol 400, macrogol 4000, purified water, sodium hydrogen carbonate

Askina® Carbosorb

Charcoal dressing



INFECTED AND MALODOROUS WOUND

Askina® Carbosorb	Size	Pcs/Pack	Reference
	10 x 10 cm	10	9025006
	10 x 20 cm	10	9025014

INDICATIONS

Askina® Carbosorb may be used for the management of exuding, partial/full thickness wounds in particular when infection and/or offensive odour is present .

ADVANTAGES

- Conformable,
- Can be used alone on low exuding malodorous wounds
- Can be combined with other absorbing dressings for moderate to heavily exuding malodorous wounds

Askina® Soft | Askina® Soft Clear

Sterile post-operative wound dressing

INDICATIONS

Askina® Soft and **Askina® Soft Clear** are indicated for management of post-operative wounds. They combine a non-adherent absorptive pad with a breathable fleece material (**Askina® Soft**) or a semi-permeable transparent film (**Askina® Soft Clear**).

ADVANTAGES

- Skin friendly adhesive
- Easy to apply even on difficult locations



Askina® Soft



Askina® Soft Clear

- Waterproof barrier and allow visual control

Askina® Soft	Size	Pcs/Pack	Reference
	7,5 x 5 cm	50	9086480
	9 x 5 cm	50	9086501
	9 x 10 cm	50	9086510
	9 x 15 cm	40	9086528
	9 x 20 cm	30	9086536
	9 x 25 cm	30	9086544
	9 x 30 cm	30	9086552
Askina® Soft Clear			
	7,5 x 5 cm	50	9086803
	9 x 10 cm	50	9086821
	9 x 20 cm	30	9086839
	9 x 25 cm	30	9086848

Askina® Soft I.V. | Askina® Soft Clear I.V.

I.V. cannula fixation dressing

INDICATIONS

Sterile I.V. cannula fixation dressing, with an integrated non-adherent absorptive pad. Made from soft conformable non-woven materials.

- Skin friendly adhesive
- Slit to wrap around tubing
- Extra pad for cushioning
- Non-adherent absorptive pad

AVANTAGES

- Skin friendly adhesive
- Slit to wrap around tubing
- Extra pad for cushioning
- Non-adherent absorptive pad



Askina® Soft I.V.	Size	Pcs/Pack	Reference
	8 x 6 cm	50	9086919
Askina® Soft Clear I.V.	Size	Pcs/Pack	Reference
	8 x 6 cm	50	9086893

Mandatory information for advertising

According to the authorised product information in germany

BRAUNOVIDON® OINTMENT / BRAUNOVIDON® OINTMENT GAUZE

Active ingredient: Povidone-iodine

COMPOSITION

- Braunovidon ointment:
100 g ointment contain 10 g povidone iodine with a content of 10 % available iodine. Other ingredients:
macrogol 400, macrogol 4000, purified water, sodium hydrogen carbonate (Braunovidon ointment gauze also contains cotton fabric, white soft paraffin).
- Braunovidon ointment gauze:
A piece of 7.5 x 10 cm impregnated dressing contains 10.5 g ointment (corresp. to 1.05 g povidone iodine), a piece of 10 x 20 cm impregnated dressing contains 28.0 g ointment (corresp. to 2.8 g povidone iodine).
- Therapeutic Indications
Antiseptic for repeated application over a limited period of time on damaged skin, e. g. Decubitus (pressure sores), Ulcus cruris (sores on lower leg), surface wounds and burns, infected dermatoses.

CONTRAINDICATIONS

- Hypersensitivity to povidone iodine or any of the other ingredients
- Hyperthyroidism or other present thyroid diseases
- Skin disease dermatitis herpetiformis
- Planned or administered radioiodine therapy (until the end of treatment)
- Newborns and infants up to the age of six months.

UNDESIRABLE EFFECTS

- Prolonged treatment can affect the wound healing process and transient pain, burning and feeling hot can occur.
- Very rare: Cutaneous reactions due to hypersensitivity (allergy).
- Very rare: Acute reactions of the immune system (anaphylactic reactions) with the involvement of other organs (e.g. skin, respiratory tract, circulatory system).
- After long-term use of povidone iodine or with treatment of large-scale burns, very rarely disturbance in electrolyte- and serum osmolarity and metabolic acidosis were reported. In this cases renal failure can also occur.
- Patients with thyroid disease should be monitored regularly for thyroid function if Braunovidon is used on a large scale or often, particularly on damaged skin.

Marketing Authorisation Holder
B. Braun Melsungen AG
34209 Melsungen
Germany
(03 / 2011)

Ordering information

Product	Size	Pcs/Pack	Reference	Quantity
Askina® Absorb+	10 x 10 cm	10	3331010	
	10 x 20 cm	10	3331210	
	20 x 20 cm	5	3332005	
Askina® Barrier Cream	92 g	1	4119201	
Askina® Barrier Film	28 ml	1	4002801	
Askina® Biofilm®	15 x 15 cm	10	F72097	
Transparent	20 x 20 cm	10	F72098	
Askina® Carbosorb	10 x 10 cm	10	9025006	
	10 x 20 cm	10	9025014	
	10 x 10 cm	10	6211010	
Askina® Calgitrol® Ag	15 x 15 cm	10	6211510	
	20 x 20 cm	10	6212010	
Askina® Calgitrol® Paste	15 g	5	6241505	
	100 g	1	6241001	
	250 g	1	6242501	
	500 g	1	6245001	
Askina® Calgitrol® THIN	5 x 5 cm	10	6205510	
	10 x 10 cm	10	6201010	
	10 x 20 cm	10	6202110	
	20 x 20 cm	10	6202010	
Askina® Derm	6 x 7 cm	10	F72032	
	6 x 7 cm	100	F72033	
	10 x 12 cm	5	F72034	
	10 x 12 cm	10	F72035	
	10 x 12 cm	50	F72036	
	10 x 20 cm	10	F72037	
	15 x 20 cm	10	F72038	
	30 x 20 cm	10	F72039	
Askina® DresSil	5 x 7 cm	10	5295710	
	10 x 10 cm	10	5291010	
	15 x 15 cm	10	5291510	
	10 x 20 cm	10	5291210	
	20 x 20 cm	5	5292005	
Askina® DresSil Border	6 x 6 cm 3 cm Ø	10	5396610	
	7,5 x 7,5 cm'	10	5397510	
	10 x 10 cm'	10	5391010	
	10 x 20 cm'	10	5391210	
	15 x 15 cm'	3 10	5391503 5391510	
Askina® DresSil Heel	15 x 20 cm'	3 10	5395203 5395210	
	20 x 20 cm'	5	5392005	
Askina® DresSil Sacrum	22 x 21,6 cm'	5	5592205	
Askina® Foam	16 x 17,5 cm'	5	5491605	
	21 x 22 cm'	5 10	5492105 5492110	
	5 cm x 7 cm	10	7240710	
Askina® Foam Cavity	10 x 10 cm	10	7241010	
	10 x 20 cm	10	7241210	
	20 x 20 cm	5	7242005	
Askina® Gel	2,5 x 40 cm	10	7244010	
	15 g	5	001419 S	
	15 g	10	001419 N	
Askina® Heel	100 g	1	0014291	
	surface = 225 cm ²	5	7240105	
Askina® Hydro	10 x 10 cm	10	F72041	
	15 x 15 cm	10	F72045	
	20 x 20 cm	10	F72047	
Askina® Scar Repair	5 x 7,5 cm	5	5695705	
	4 x 30 cm	5	5694305	
	10 x 18 cm	5	5691805	
Askina® SilNet	2 x 14 cm	3	5691403	
	5 x 7,5 cm	10	5195710	
	10 x 7,5 cm	10	5197510	
	10 x 18 cm	10	5191810	
Askina® Soft	20 x 30 cm	5	5192305	
	7,5 x 5 cm	50	9086480	
	9 x 5 cm	50	9086501	
	9 x 10 cm	50	9086510	
	9 x 15 cm	40	9086528	
	9 x 20 cm	30	9086536	
Askina® Soft Clear	9 x 25 cm	30	9086544	
	9 x 30 cm	30	9086552	
	7,5 x 5 cm	50	9086803	
Askina® Soft Clear	9 x 10 cm	50	9086821	
	9 x 25 cm	30	9086848	

Product	Size	Pcs/Pack	Reference	Quantity
Askina® Soft I.V.	8 x 6 cm	50	9086919	
Askina® Soft Clear I.V.	8 x 6 cm	50	9086893	
	6 x 6 cm	10	21155	
	6 x 6 cm	15	21005	
Askina® Sorb Dressing	10 x 10 cm	3	21075	
	10 x 10 cm	10	21165	
	10 x 10 cm	15	21015	
	15 x 15 cm	3	21085	
	15 x 15 cm	10	21025	
Askina® Sorb Flat Rope	2,7 x 34 cm	10	21055	
Askina® THINSite	10 x 10 cm	10	0072888T	
	15 x 15 cm	10	0072894V	
Askina® Trachea	9,5 x 8,5 cm	10	7248510	
	5 x 7 cm	10	0072786 R	
Askina® Transorbent®	10 x 10 cm	5	0072789 U	
	15 x 15 cm	5	0072790 V	
	20 x 20 cm	5	0072791 W	
Askina® Transorbent® Sacrum	16 x 18 cm'	3	0072795Z	
	18 x 20 cm'	5	0072792 X	
	18 x 20 cm'	10	0072799X	
Braunovidon® Ointment	Tube 20 g	1	Product with drug status, individual article number by country	
	Tube 100 g	1		
	Tube 250 g	1		
	Pot 250 g	1		
Linovera®	GB ES PT IT	30 ml	467933	
	GB	50ml	481187	
Prontosan® Wound Irrigation Solution	Pod 40 ml	24	400484	
	Bottle 350 ml	1	400403	
	Bottle 1,000 ml	1	400446	
Prontosan® Wound Gel	30 ml	1	400505	
Prontosan® Wound Gel X	50 g	1	400517	
Prontosan® Wound Spray	250 g	1	400508	
	75 ml	20	400565	

Manufacturers:

Prontosan®, Braunovidon®:

B. Braun Medical AG, Infection Control, Seesatz, 6204 Sempach, Switzerland

Askina® products: B. Braun Hospicare Ltd., Collooney, Co. Sligo, Ireland

Linovera®: B. Braun Medical SA, Carretera de Terrassa, 121, 08191 Rubi (Barcelona), Spain

Manufactured by:

B. Braun Hospicare Ltd. | Collooney | Co. Sligo | Ireland

B. Braun Medical AG | Infection Control | Seesatz 17 | 6204 Sempach | Switzerland

B. Braun Medical SA | Carretera de Terrassa 121 | 08191 Rubi (Barcelona) | Spain

www.bbraun.com/wound-management

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