

# NuMed Wound Care Products

## Calcium Alginate Dressings

Alginate dressings are absorbent wound dressings that may be used on multiple wound types including but not limited to diabetic wounds, venous wounds, pressure ulcers, cavity wounds, and some bleeding wounds. They can be combined with other types of dressings to achieve different effects and available in several sizes. Their unique properties allow them to be used on a variety of patients. Alginates should be used as a contact layer meaning they come into contact with the wound bed itself and they always require a secondary cover dressing to keep them in place.

Traditionally, alginates are made from acids that are obtained from brown seaweed. The calcium salts of alginic, mannuronic, and guluronic acids are processed into non-woven biodegradable fibers. When these fibers come into contact with fluid rich in sodium, the calcium ions undergo a transaction that results in the formation of a soluble sodium gel. This gel formation can also promote Autolytic debridement of the wound. Alginates have the unique ability to absorb up to 20 times their weight in fluid. Some alginates contain a silver compound that provides antimicrobial protection and may be considered for an infected wound.



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## Collagen Dressings

Type I Collagen is the most abundant type of collagen in the human body. As the main component of connective tissue, it is the most abundant protein in mammals, making up from 25% to 35% of the whole-body protein content.

Collagen in the form of elongated fibrils, is most found in fibrous tissues such as tendons, bones, ligaments and skin. The fibroblast is the most common cell which creates collagen. During healing, collagen encourages fibers and granulation tissue in the wound bed. Collagen also stimulates new tissue development and wound debridement creating an environment conducive to healing.



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## Composite / Island Dressings

Composite Dressings are wound covers that combine physically distinct components into a single product to provide multiple functions such as bacterial barrier, absorption and adhesion.

Usually, they are comprised of multiple layers and incorporate a semi or non adherent pad that covers the wound.

They may also include an adhesive border of non woven fabric tape or transparent film. They can either function as a primary or secondary dressing on a wide variety of wounds and may be used with topical medications.

Composite dressings are suitable for use in most healthcare settings including treatment for acute wounds in emergency care (cuts, burns, and abrasions) surgery (surgical incisions) and intensive care (I.V. catheter sites) as well a chronic wounds (superficial and partial thickness wounds) in long term care.



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## Hydrocolloid Dressings

NuMed Hydrocolloid Dressings provide a beneficial moist wound healing environment and stimulate the physiological healing process of the wound. When fluids from the wound come into contact with the hydrocolloid dressing, it interacts and forms a gel that covers the wound and keeps the wound hydrated.

Hydrocolloid dressings are occlusive, adhesive, and absorbent. They provide several wound-healing benefits. Apart from the beneficial moist wound healing environment, these dressings form a protective barrier restraining environmental pollution from entering a wound. They also diminish bacterial growth by lowering the pH of a wound.

Hydrocolloid dressings are suitable to use on chronic and acute, mild to moderate exuding wounds. They can also be used on dry wounds in which case they have shown to have a softening effect.



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## Hydrogel Sheet

NuMed Hydrogel Dressings are a unique and versatile category of advanced wound care dressings. Hydrogel dressings are used for dry to moderately draining wounds. They are most often used in situations where moist wound healing is desired and the control of drainage is of secondary concern. The hydrogel can absorb or donate moisture to the wound, depending on the relative state of hydration of the tissue and dressing. Hydrogels are often used to facilitate autolytic debridement in necrotic wounds but also used to help maintain and a moist wound healing environment in clean, granulated wounds.

Hydrogel dressings are seen as an essential component in many different types of wound care. This is because hydrogel dressings are designed to hold moisture at the surface of the wound, providing the ideal environment for both cleaning the wound and allowing the body to rid itself of necrotic tissue. The moisture in the wound is also essential in pain management for the patient and these dressings are very soothing and cooling. Therefore it is perfect for use in a variety of different applications. With their high moisture content, they also can help to prevent bacteria and oxygen from reaching the wound providing a barrier for infections.



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## Foam Dressings

Foam dressings can be used for a wide range of wounds. Because of their absorptive ability, foam dressings are especially useful for wounds with moderate to heavy exudate production.

This is important because wound exudate can impair healing and harbor bacteria that damage healthy granulating tissue. Therefore that absorptive ability of a foam dressing must match the exudative property of the wound. A dressing labeled “lite” or “thin” won't absorb as much exudate as a product labeled “extra” or “plus”. Remember the foam dressing must be able to effectively manage the exudative properties of the wound.

Foam dressings maybe used as a primary or secondary dressing. They are flexible in that they can be cut to fit irregular wounds or specific body parts, such as fingers, toes or ears.

They can also be used under compression bandages with venous ulcers and can be cut to fit into a wound cavity. When placing a foam dressing in a cavity wound, it's important to remember to allow for dressing expansion as exudate is absorbed.



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## Sacral Silicone Foam Dressing

NuMed Sacral Silicone foam dressing consists of a silicone wound contact layer, a polyurethane foam layer, a super absorbent foam layer, and a vaporpermeable and waterproof film. The multi-layer construction facilitates dynamic fluid management to provide an optimal moist wound environment, which leads to the promotion of faster wound closure and may help produce the risk of maceration. The gentle silicone layer can be lifted and repositioned without losing its adherence also, this layer can minimize pain to patients and trauma wounds and surrounding skin during dressing changes. The absorbent pad layer provides superior absorption and locks exudates away.



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## Silicone Absorbent Dressings

NuMed Silicone Super Absorbent dressing is a soft, highly flexible, and super absorbent post-operative dressing. It is widely used to absorb and lock the blood and surgical exudates from surgical wounds, lacerations, and cuts. It's composed of a gentle silicone wound contact layer, a non-woven wicking layer, a highly absorbent pad, and a vapor-permeable and waterproof film. The silicone wound contact layer is hypoallergenic and doesn't stick to the wound. It's very easy in application and causes no pain for dressing changes.

The special design of the crescent perforated pattern in the super absorbent pad creates dynamic flexibility as well as ensuring the dressing integrity during use.

Horizontal and vertical absorption are also beneficial from this open-up structure. No more worries about wounds that are located on joints or difficult area.



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## Silver Alginates Dressings

NuMed Silver Alginate Dressing is composed of calcium alginate which derived from seaweed through a series of special processes and silver particles. It is designed to be highly and fast absorbent. The dressing absorbs exudates and forms a gel-like covering over the wound, maintains a moist environment for wound healing, which also keeps the dressing from adhering to the wound. The most fascinating aspect is the dressing can restrain the bacteria growth and reduce infection.

## Silver Foam Dressings

Powerful controlled release of ionic silver provides sustained antibacterial effect up to 7 days. Inhibits a broad spectrum of infection up to 99.99% for a wide variety of bacteria. High absorbent foam pad helps maintain a moisture healing environment, longer wear times and pain-free removal.

Great flexibility in awkward areas. Different shape designs fit for various difficult dressing areas, such as elbow, heel, and sacrum. Easy application makes dressing & changing untroubled.



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