



 *Biesterfeld*

Spotlight Scar Care

DuPont Liveo™ Silicone Technologies for Topical Applications



The product range is composed of silicone-based materials that allow you to formulate innovative solutions for consumer healthcare application and for the efficient delivery of your Active Pharmaceutical Ingredients (API) in topical forms like creams, lotions, gels, ointments, sprays or sticks.

DuPont silicone-based excipients enable unique and aesthetically appealing formulations, making your pharmaceutical finished dosage forms easier to apply and more pleasant to use, thereby helping to increase patient compliance.

Formulation Name	Reference Number	Viscosity*	Properties
Silicone Gel 1	BSC PH 2301	1.115mPas	Anhydrous Gel with non-occlusive, smooth feeling and film-forming ingredients
Silicone Gel 2	BSC PH 2302	45.350mPas	Anhydrous Gel with non-occlusive, smooth feeling and film-forming ingredients
Silicone Gel 3	BSC PH 2303	34.550mPas	Anhydrous Gel with non-occlusive smooth feeling and flexible film-forming ingredients
Anhydrous Gel	BSC PH 1901	12.000mPas	Anhydrous Gel with non-occlusive ingredients, using Silica as thickening agent.
SiCar Gel	DuPont SC3013	4.130cP	Anhydrous gel with a non greasy feeling. Easy to spread.
Mattifying SiCar Gel	DuPont SC3014	48.100cP	Anhydrous gel, non-occlusive and substantive. Smooth and pleasant feeling. , protective1, wash-off-resistant formulation with excellent sensory profile
Protective Scar Gel	Dupont SC3019	1.070cP	Anhydrous gel providing a non-occlusive and substantive, skin protectant and wash-off-resistant film. Smooth and pleasant feeling.
Balancing Scar Gel	DuPont SC3020	500cP	Anhydrous gel providing a substantive, skin protectant and wash-off-resistant film. Easy to spread and non-greasy.
Refreshing Scar Gel	DuPont SC3021	3.780cP	Anhydrous gel with non-tacky and mattifying effect on the skin. Pleasant feeling and easy to spread.
Substantive SiCar Gel	DuPont SC3022	2.660cP	Anhydrous gel with substantive and wash-off-resistant properties, leaving a protective film on the skin.
EverGloss SiCar Gel	Dupont SC 3034-2	2.100cP	Anhydrous Gel with long-lasting, breathable and wash-off resistant film formers. Smooth feel.
EasySpread SiCar Gel	Dupont SC 3034-1	1.800cP	Anhydrous Gel with long-lasting, breathable and wash-off resistant film formers. Easy to spread and non-tacky
Moisturizing SiCar Cream	DuPont SC3026	217.200cP	O/W Emulsion containing Centella Asiatica extract with a non-greasy and matte effect on the skin.
UV SiCar Gel	DuPont SC3023	2.640.000cP	Anhydrous Gel with a non-tacky and mattifying effect on the skin containing UV-A and UV-B sun filters.

*The viscosity was measured with different methods, either RV or Brookfield. Further details on each formulation are available upon request.

All formulations undergo stability testing , further details are available upon request.

Consumers are increasingly demanding a higher quality of life and are taking charge of their health and well-being. At the same time, regulations on consumer healthcare products are continually evolving to ensure safety and minimize public risk. With our topical portfolio including various raw materials from our trusted suppliers we offer highly effective solutions for treating and preventing different skin conditions.



Scars

Scarring is the final, visible step in wound healing, which is divided into three phases: Inflammation, repair and reconstruction. Scarring can take up to two years. During this time, it is possible to positively influence the appearance. The chances are improved by early intervention.

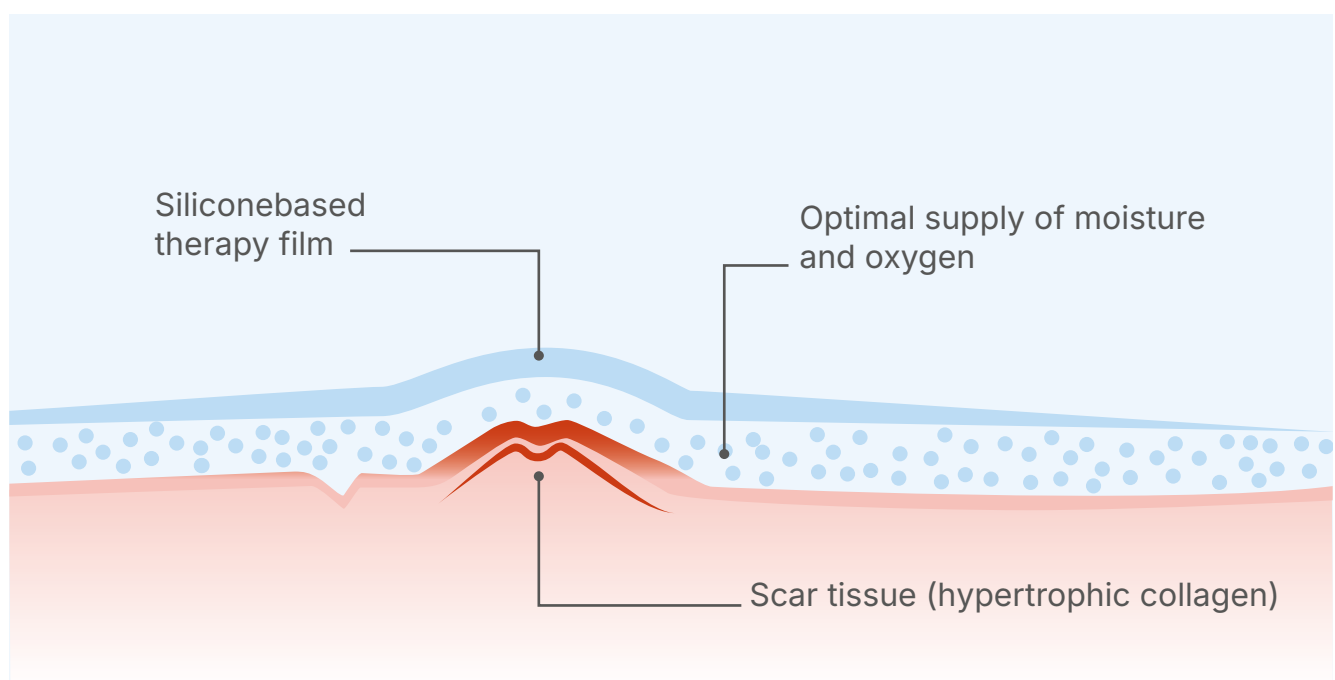
Abnormal scar shapes can cause discomfort, which is why it is important to take care of them. These can be divided into physiological and psychological complaints.

Psychological problems:

- › Sleep disorders
- › Anxiety
- › Loss of self-esteem
- › Reduced quality of life
- › Memory of a potentially traumatic event

Physiological problems:

- › Itchiness
- › Redness
- › Sensory disturbances
- › Discomfort
- › Stabbing Pain
- › Restricted Movement



Scar Treatment

In the treatment of scars, invasive techniques such as surgery as well as non-invasive techniques in the form of topical treatment products are used. These products and procedures are used for the treatment of all types of scars: keloid scars, contractured scars, hypertrophic scars, burn scars and atrophic scars.

Scars caused by surgery can be removed by surgical revisions, although most people are reluctant to agree to another invasive procedure after a surgery. Most patients are opting for easily available OTC or medical device topical scar treatment products. Other patients choose alternatives, such as cryotherapy, clinical peel and/or compression.

The products for topical treatment can be divided into gels, creams, wipes, sprays and plasters. Gels are the most commonly used form.

Carefully treated scars with silicone are generally significantly softer, paler and less raised. Silicones form a water-repellent protective film and therefore ensure optimal moisturization of the wound. An optimal moisturization of the skin prevents excessive collagen production, which keeps the scar flat.

DuPont™ Liveo™

As a global leader in silicones with more than 70 years of experience in the healthcare industry, DuPont offers solutions, expertise, quality and compliance support for your topical applications.



Silicones as first-line Scar Therapy

- › Long history of use
- › Mechanical properties equivalent to dermal tissue
- › Semi-occlusive to non-occlusive properties
- › Innocuousness (non-allergenic, non-comedogenic)
- › Biocompatible
- › Good aesthetic properties
- › Available in different delivery forms
- › Extensively documented in the literature



Forms most widely used for scar treatment



Gel



Cream



Plaster



Sheet



Spray



Contact

For more information feel free to reach to the Healthcare experts at Biesterfeld at pharma@biesterfeld.com

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Published by:

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