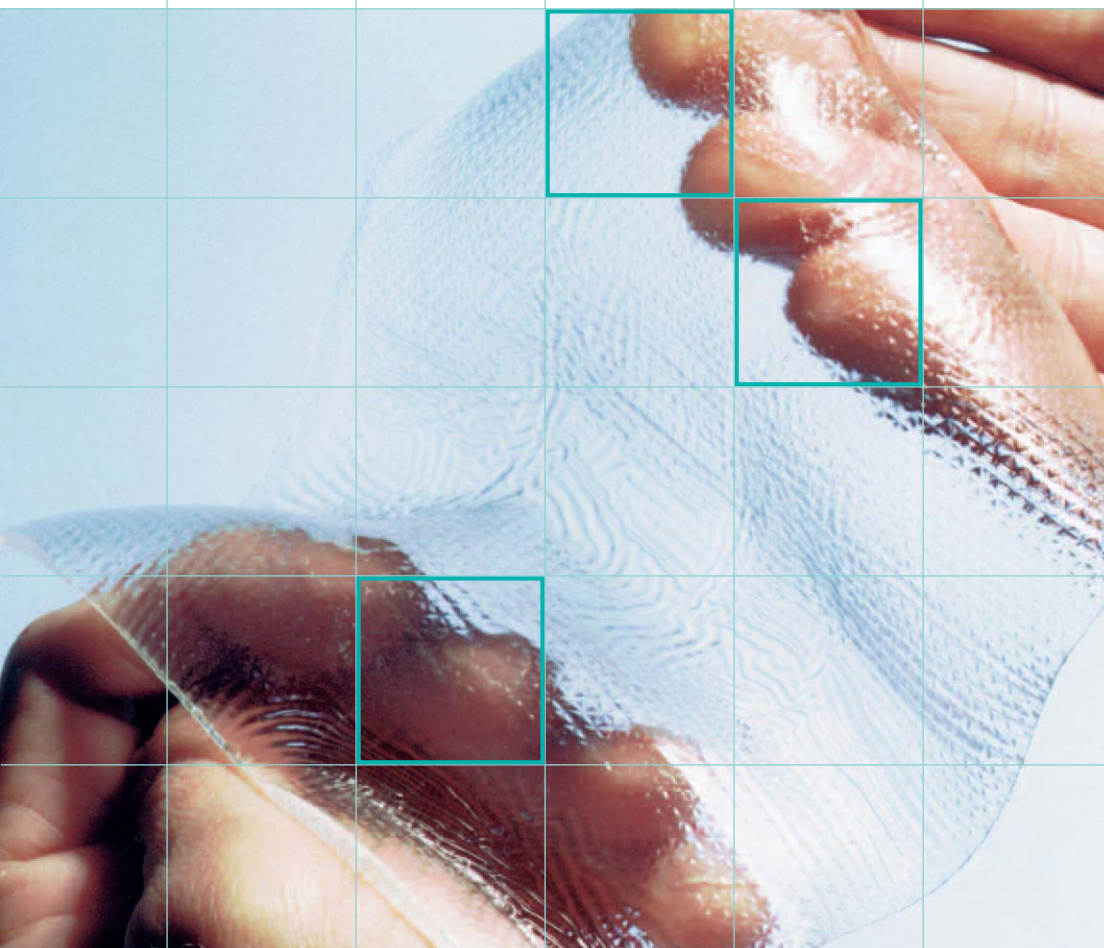


Wound Management

Silicones and Beyond



AV06118

DOW CORNING

Commitment to the Industry

“We are committed to providing our customers with innovative solutions to service and grow the wound care market.”

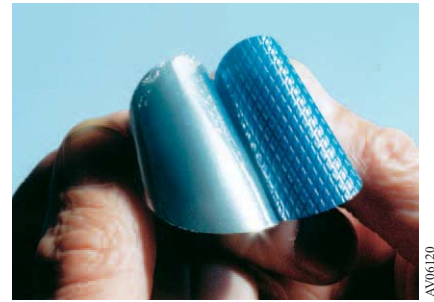
– Kevin Murphy, Dow Corning Wound Care Commercial Manager

An Opportunity for Innovation

- Dow Corning has participated in the healthcare industry since the 1940's. We have identified *wound management* as a *primary focus* for strategic development and collaboration.
- *Dow Corning support and expertise* enables healthcare manufacturers to develop successful wound applications. Our products are flexible to *formulate and process*, and are *exceptionally biocompatible*.
- Companies often *consult with Dow Corning early in the design process* to take advantage of our expertise.

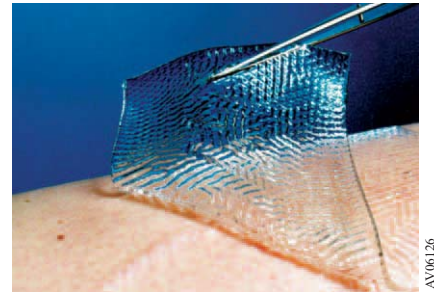
Materials for Wound Management

- *Silicones and organic-silicone combinations* have long been *recognized by the medical world as versatile materials* for use in the treatment of wounds, to facilitate healing and reduce discomfort.
- These materials have proven their efficacy and biocompatibility in many applications, including *non-adherent dressings, burn treatment gauzes, cavity wound dressing, skin barrier, scar management, burn masks and pressure sore cushions*.
- In addition to the above applications, Dow Corning materials are currently used in transdermal drug delivery systems, and in medical device fixation applications.
- Silicon-based excipients, such as, *Dow Corning® Silky Touch* products, can *improve the aesthetics* of your topical formulation and increase patient comfort.
- Dow Corning technologies suitable for wound management include: *silicone gels, foams, pressure sensitive adhesives, elastomers, fluids and emulsions, as well as organofunctional siloxanes*.



Transdermal Drug Delivery System

AV06120



Scar Therapy

AV06126



Topical Skin Formulation

AV02762



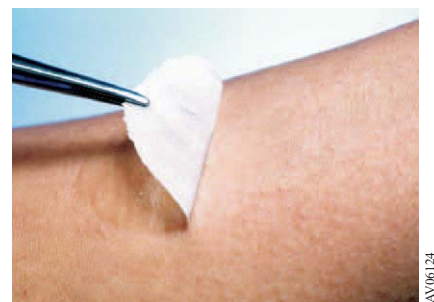
Silicone Foam

AV06119



Silicone Elastomer Film Former
(applied to skin)

AV06123



Silicone Elastomer Film Former
(removal from skin)

AV06124

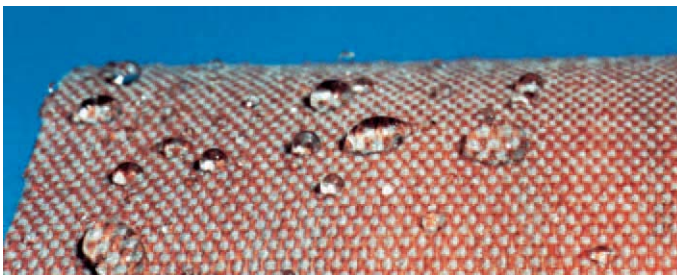
Performance and Benefits

The following are characteristic benefits of silicones, organic-silicone hybrids and novel delivery systems.

Biocompatibility	
Moisture control	
Gas permeability	
Drug delivery	
Barrier properties	
Modifiable skin adhesion	
Non-adherent to wound	
Conformability	
Protection	
Flexible processing	
Easy-to-use	

- **Our mastery of silicone technology** makes it possible to adapt the characteristics of the materials to the nature of the application and to the specific processing requirements.
- The **versatility** of silicone technology provides a continuum of features and benefits.

Volatile	➡	Non-volatile
Profoam	➡	Antifoam
Sticky	➡	Slippery
Water insoluble	➡	Water soluble
Shiny	➡	Good depth of gloss
Compatible	➡	Incompatible in organics
Transient	➡	Durable
Stability	➡	Quick reaction



Waterproof Fabric



Textiles and Non-Wovens

Innovation and Collaboration with Dow Corning

- The healthcare industry values suppliers with **expertise and technical competence**.
- We offer **collaborative opportunities** to companies that develop and market wound management applications for mutual success.
- **We participate in** many markets that can provide synergies with wound management, such as **personal skin care, textiles** and **non-wovens**.
- Dow Corning also has **joint ventures with novel biotech material suppliers** that further enhance the breadth of our expertise.
- Our understanding of emerging technologies, coupled with our experience in the healthcare industry, enables us to provide:
 - Customization of existing technologies to meet your unique needs
 - Expertise in material and application formulation, toxicology, process engineering and drug compatibility
 - Development of cutting-edge solutions to unmet needs
 - Patented technologies to help developers gain a competitive edge

Dow Corning Quality

- When Dow Corning designs silicon-based products for healthcare, we take into account the performance and purity level your applications require, as well as the environment of safety and security you need to comply with the industry's stringent regulatory demands.
- Depending on your need or application, we can provide material from an ISO certified site or an FDA registered facility to the appropriate level of cGMPs.
- Regulatory support could include Pharmacopoeial Certification, Drug Master Files, Material Application Files or Technical Files.

Selected References

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- K.L. Ulman, X. Thomas, Silicone Pressure Sensitive Adhesives: Advances in Pressure Sensitive Adhesive Technology, 2nd Ed., D. Satas, Satas & Assoc., 1995
- Dow Corning Healthcare Selector Guide: Innovative Silicone Solutions for Healthcare Applications, Form Number: 51-988B-01
- Silicone Chemistry Overview, Form Number: 51-960A-97
- *Dow Corning*[®] Silky Touch Silicone, Form Number: 52-1026-01

Contact Dow Corning...

Dow Corning has sales offices, manufacturing sites, as well as science and technology laboratories around the globe. Telephone numbers of locations near you are available on the world wide web at www.dowcorning.com, or by calling one of our primary locations listed below.

North America

Dow Corning Corporation
World Headquarters
Tel: +1 989 496 6000

Asia

Dow Corning Asia Ltd. – Japan
Tel: +81 3 3287 1151
Dow Corning Asia – Singapore
Tel: +65 253 6611

Australia and New Zealand

Dow Corning Australia Pty. Ltd.
Tel: +61 1300 360 732

Europe

Dow Corning S.A.
Tel: +32 64 88 80 00

Dow Corning, Ltd.
European Customer Service Center
Tel: +44 1676 528000

South America

Dow Corning do Brasil
Tel: +55 11 3759 4300

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