Dermal

CONVENIENT FOR PATIENTS, PROTECTIVE FOR FORMULATIONS

Our airless and atmospheric delivery devices are suitable for RX and OTC formulations with all the documentation needed to be registered on regulated markets.

Our systems aim to be used for all therapeutic areas for which the treatments can be administered via the skin.

The dermal application is a convenient non-invasive way to administer liquid sprays, lotions, gels, or creams to the skin for **dermatological, transdermal local, and transdermal systemic** treatments.

Example of dermatological therapeutic areas include acne, cold sore, eczema, alopecia, and psoriasis. Whilst transdermal local and systemic treatment routes are commonly used for anti-inflammatory and hormonal replacement therapy.

Dermal products

COMMERCIALLY AVAILABLE

Sof'Bag®+

Sof'Bag®+ is an airless pouch-in-bottle packaging solution for prescription (Rx) and over-the-counter (OTC) formulations for dermal and transdermal application.

Sof'Airless XS+

Sof'Airless XS+ is a protective mini-airless system to deliver gel and creams for small dose applications and sampling.

Pumps for viscous formulations and sprays

We provide a wide range of atmospheric pumps to deliver your liquid and viscous formulations in a comprehensive range of doses.

IN DEVELOPMENT PLATFORM

Child Resistant Closure for Sof'Bag®+

The Child Resistant Closure for Sof'Bag®+ is a 'press and turn' concept developed to prevent unwanted child opening while making it easy to manipulate for adults.

Our services

Integrated services from device selection to GMP manufacturing

Early-stage Innovation

Testing services for customer formulations

Sof'Bag®+

The airless solution for your sensitive formulations.

Sof'Bag®+ is an airless pouch-in-bottle packaging solution for prescription (Rx) and over-the-counter (OTC) formulations for dermal and transdermal application. Sof'Bag®+ is suitable for solutions, lotions, gels and creams, and even the most sensitive formulations.

Works with a wide range of viscosities
- even with highly viscous formulations

Can be used in any position
- 360˚ formulation dispensing

Compliant device, documentation and manufacturing
- with the most recent and stringent pharmaceutical Packaging Component requirements and Medical Devices Regulation 2017/745

Protection against oxygen, light and moisture
- thanks to the pouch aluminum layer

Very high evacuation rate (>95%)
- almost no formulation waste

Precise Delivery
- Sof'Bag®+ can be registered as a "metered dose system"

POSSIBLE CUSTOMIZATION
You can modify cap & bottle colors, shapes and sizes or add new functions (dose counter, electronics features etc…).

Our development teams are dedicated to finding solutions fitting your requirements.

* Sof'Bag®+ is a registered trademark of Nemera La Verpillière

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POUCH-IN-BOTTLE TECHNOLOGY

Upon pump actuation, the formulation is dispensed
out of a collapsing pouch encased inside a rigid bottle.

A STANDARD OFFER

Standard

B-shape*

**Device is composed
of 2 sub-assemblies:
a pump and a pouch bottle.**

SP943+ with a cap

- Available doses (µl):
  672*, 1000, 1420, 1500
- Fitment: Snap on
- Actuator included
- **Child Resistant Closure**
  in development

+

A laminated pouch inside a rigid bottle

Pouch-in-bottle+ sub-assembly

- Bottle sizes available (ml): 50, 100

Not available for hormonal applications

Sof'Airless XS+

The compact and transportable solution for local dermal treatments.

Sof'Airless XS+ is a protective mini-airless system for small dose applications and sampling.

It is the solution for trial sizes or local treatments with very little skin surface to cover. It targets Rx and OTC dermal gels and creams and is already used for cold sore treatments.

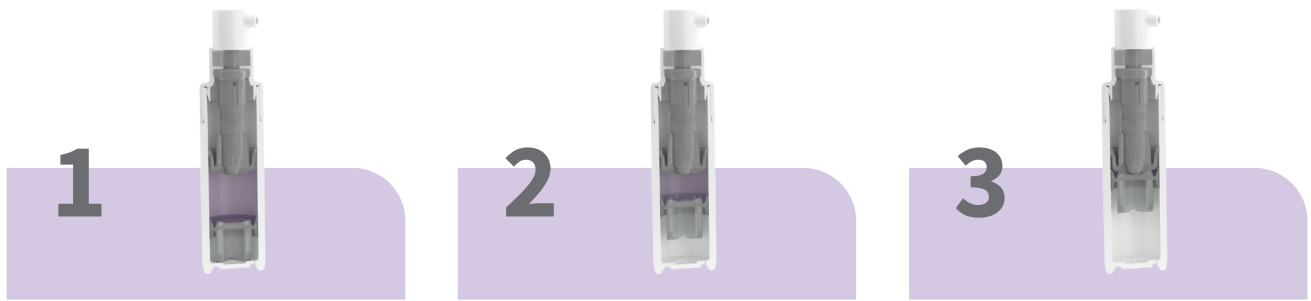### Can be used in any position
- 360˚ formulation dispensing

Compact and transportable
- 2ml size

Very high evacuation rate (>95%)
- Almost no formulation waste

1 **2** **3**

PISTON TECHNOLOGY

Upon pump actuation, the formulation is dispensed and the bottom piston rises.

Device is composed of 3 sub-assemblies: a pump, a piston bottle and a cap.

SP24A+ pump

- Pump versions: 45, 80
- Fitment: Snap-on
- Actuator included

+

Piston-bottle

- Bottle volume: 2ml

+

Cap

- Cap colours: white or transparent

Delivery solutions for dermal applications

Atmospheric technology pumps have been developed to deliver formulations with a wide range of viscosity. They are available with a comprehensive range of doses; suitable for topical drugs such as local anesthetics, anti-inflammatories, antibiotics, antifungals and counterirritants for the skin.

Pumps for viscous formulations and sprays

We have a range of solutions to deliver your liquid and viscous formulations for regulated or low regulated markets.

Small doses, regulated market

		Fitments		
	Doses (µl)	Crimp	Snap	Screw
Pumps				
SP270+	50, 70, 80, 90, 100, 130, 140	FEA20	FEA20	DIN 18/10 GCMI 18/415
SP370+	180, 200			
Actuators				
9590D+		✓	✓	✓
5200+		✓	✓	✓

Small doses, low regulated markets

		Fitments		
	Doses (µl)	Crimp	Snap	Screw
Pumps				
SP27	50, 70, 80, 90, 100, 130, 140	FEA20	FEA20	DIN 18/10 GCMI 18/415
SP37	180, 200			
Actuators				
9590		✓	✓	✓
5200		✓	✓	✓

Our services

INTEGRATED SERVICES
from device selection to GMP manufacturing

We have developed end-to-end services and expertise in dermal drug delivery device development and device consulting, to complement our diverse portfolio of products and help you through every step of the journey.

EARLY-STAGE INNOVATION

We provide a full understanding of the patient journey and recommend user-related activities to further optimize patients' experience for a specific drug/device combination product.

TESTING SERVICES FOR CUSTOMER FORMULATIONS

Thanks to our high-end laboratory facilities, we propose device plus formulation test services, as well as test methods development for our customers' needs.

Learn more about
our services at:
nemera.net/our-services

As a world-leading drug delivery device solutions provider, our purpose of putting patients first enables us to design and manufacture devices that maximize treatment efficacy.

We are a holistic partner and help our customers succeed in the sprint to market of their combination products. From early device strategy to state-of-the-art manufacturing, we're committed to the highest quality standards.

Agile and open-minded, we work with our customers as colleagues. Together, we go the extra mile to fulfill our mission.

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Our broad offering

Offering a broad range of solutions in major delivery routes, we are the holistic development and manufacturing partner for your custom drug delivery device solution.

PRODUCTS

Nemera proprietary drug delivery devices

Contract developed and manufactured drug delivery devices

SERVICES

From device selection to product lifecycle management

HOLISTIC END-TO-END CAPABILITIES

Research & development

Process engineering & Industrialization

Clinical & commercial Manufacturing