

COSMED PHARMACEUTICAL

MICRONEEDLE



*From the journal "Pharmaceutics" published by The Academy of Pharmaceutical Science and Technology, Japan



MOISTURE DELIVERY SYSTEM

The Concept of “Injecting Moisture”



Specialist of “Moisture Injection” by Transdermal Absorption

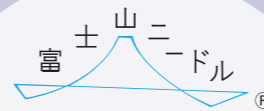
All technologies originate from medicine

In 2008, CosMED Pharmaceutical succeeded in developing and commercializing the world's first method of introducing drug ingredients into the body, the ‘Dissolving Microneedle Technology’, which can release macromolecular ingredients into the skin simply by attaching fine needles made from hyaluronic acid. Since then, we have continued to conduct research to absorb costs, and have built up a vast range of agricultural methods in both development and manufacturing.

MICRONEEDLE

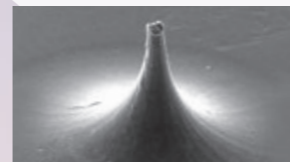
Responding to diverse needs with overwhelming technology.

128 patents
Obtained for our unique manufacturing technologies
*As of Aug. 2024.
 41 in Japan, 19 in Korea, 17 in USA, 17 in China,
 12 in Australia, 12 in Europe, 5 in Canada, 1 in India,
 1 in New Zealand, 1 in Philippines, 1 in Thailand, 1 in Vietnam.



Stick in without breaking

Invented the “Mt. Fuji Needles®” which uses the elasticity of the skin to stick in without breaking. Achieve overwhelming penetration.



Thinness

1/6 the size of a hair

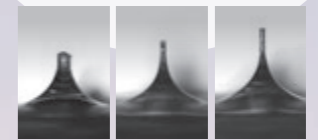
Miniaturized the needle tip to 15 -20µm, enabling penetration into the stratum corneum.

Accurately uniform through mold manufacturing method
 Manufacturing patent No. 5267910, No. 4427691 in Japan

Length

Selectable according to purpose

150 µm / 200 µm / 300 µm
 Technology to manufacture microneedle lengths allows to design for specific purposes.



150µm 200µm 300µm

Ingredients

Various combinations are available

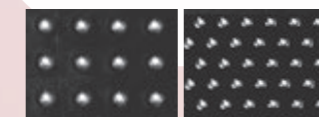
Non-heated manufacturing allows for a wide range of ingredient combinations.

- Niacinamide
- CICA
- VC derivative
- Human stem cells
- Collagen
- Placenta etc.

Density

Number of needles can be selected

Arranging the needles in a diamond shape achieves more density compared to our previous products.



Square array 320pcs/cm² Diamond array 750pcs/cm²

Speed

Adjustment of melting speed

Possible to adjust the dissolving speed of the needles for different purposes

- Instant dissolution type (instantly - 5 min)
- Short time type (20 min or longer)
- Long-lasting type (5 - 6 hr)

OILGELPACK

Sticking material developed based on the compatibility with the needles

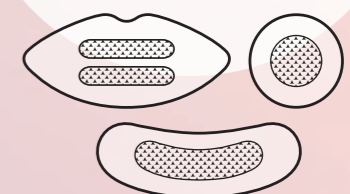
Net urethane, non-woven fabric, etc.
 Moisturizing ingredients such as Squalane and Olea Europaea (Olive) Fruit Oil ★

Sticking part★ contains skincare ingredients but no adhesive.

Shapes

Flexible design of shapes

Design patches to suit different areas and purposes.



*From the journal "Pharmaceutics" published by The Academy of Pharmaceutical Science and Technology, Japan ©All black and white images are microscopic enlargements. ©Images for illustrative purposes.

It All Started From “Alternative Injection”

Reliable Needle Cosmetics

Since our founding in 2001, CosMED Pharmaceutical has been conducting basic research on TTS (Transdermal Therapeutic System: a method of administering drugs through the skin for the body to absorb) and researching alternative methods for polymeric drug injections such as influenza vaccines and insulin. With “drug,” “skin,” and “penetration” as three keywords, we continue to research ways to take drugs into the body painlessly, easily, and reliably.



Through Consistent Domestic Manufacturing

Won many business awards

Commitment to High Quality

In-house management from R&D to manufacturing and domestic production. Strengthened our supply system with 3 hubs: Kyoto, Katsura, and Kissho factories. Cosmetics are also manufactured in the highest level of clean rooms in compliance with ISO22716 (cosmetics GMP) under strict quality control at the same level as pharmaceutical manufacturing. (Katsura Factory, Kissho Factory)



Kyoto Factory

Katsura Factory

Kissho Factory



Many orders received from major cosmetics manufacturers

We accept OEM and ODM orders for “MICRONEEDLES” for various purposes.

Please feel free to contact us.

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