



Ultra-soft Nasal Sprays

Introducing Spray Nozzles for Gentle Treatment of Nasal Congestion and Rhinitis

Tiny nozzle pores with a low flow resistance enable new nasal spray devices to:

1. Create an ultra-soft, slow-moving mist, that even babies and infants will barely feel.
2. Spray 20-30 μm droplets, improving efficacy of nasal sprays in paediatric population ⁽¹⁾.
3. Spray up to 3 seconds with one pump actuation.
4. Limit dripping and flow into consumers' throat.
5. Be preservative-free.
6. Be completely silent.
7. Avoid the need for a specific head positioning.
8. Avoid the use of propellants, contributing to eco-friendly devices, for a sustainable future.

(1) In Vitro Measurement of Regional Nasal Drug Delivery with Flonase®, Flonase® Sensimist™, and MAD Nasal™ in Anatomically Correct Nasal Airway Replicas of Pediatric and Adult Human Subjects. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 29 August 2019.

Medspray, innovative spray nozzles

Medspray manufactures innovative spray nozzles, providing a slow-moving, ultra-fine mist without using fast evaporating propellants or excipients.

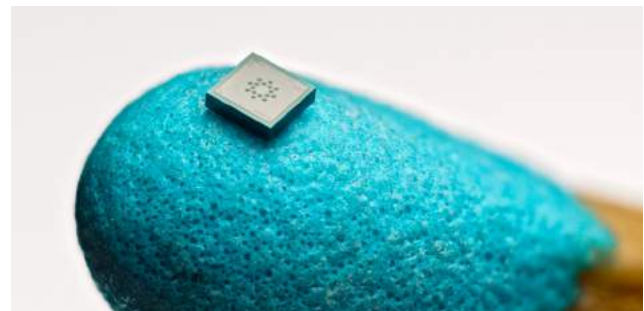


Tiny technology, for a sustainable future

Engineering the size (1-30 μm), number of pores (1-200), vectors and geometric pattern means the industry can tailor the spray application.

A simple pump with a water-based formulation is all it takes to launch new revolutionarily OTC consumer health products (e.g. nasal, ophthalmic, dermal), Rx products (pulmonology, CNS), fine fragrances & personal care applications.

Medspray is well aware that both manufacturers and consumers, are searching for more user-friendly products with less environmental damage. Medspray's nanotechnology-based spray nozzles are developed to offer maximum user comfort and contributing to a sustainable future.



Innovative Nasal Sprays in collaboration with Aero Pump

- Dose volume: 25 μl to 100 μl
- Droplet size: can be designed from 20 to 100 μm
- Plume geometry: adjustable from 5 to 50 degrees
- Spray time: 1 to 3 seconds
- No inhalable fraction (0% droplets below 10 μm)
- Closure: snap-on 20 mm

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