3M Drug Delivery Systems

INHALATION SYSTEMS

3M™ Taper Dry Powder Inhaler

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3M Taper Dry Powder Inhaler combines patient-friendly design and active aerosolization to provide effective delivery of drug.

Multi-dose DPI providing up to 120 pre-metered doses using active aerosolization to efficiently deliver drug

The 3M Taper Dry Powder Inhaler (DPI) uses a unique design that stores API on a microstructured carrier tape. Patient-friendly design helps ensure effective delivery and correct dosing.

- Can be used with single or combination drugs
- Eliminates need for complex powder treatments or lactose in most formulations
- Holds up to 120 doses in pocket sized design
- API dose range up to 1 milligram
- Protects against moisture ingress
- Patented 3M breath actuated technology
- Utilizes active aerosolization without electronics

With more than 50 years of drug delivery experience – and an ever-expanding portfolio of products and services – 3M can offer a partnership that helps ensure a smooth process from start to finish.

ENABLING YOUR SUCCESS.

We're expanding our inhalation portfolio to increase your opportunity for success

The 3M Taper DPI uses 3M microreplication and extrusion technology to create a "dimpled" tape upon which one or more APIs are coated. The number and spacing of the dimples determines dose. This unique dimple design allows the use of API only, virtually eliminating the need for lactose or complex powder formulations. The tape is wound onto a supply spool and placed into the device.

Designed to ensure effective delivery

Upon opening the mouthpiece device, a dose is ready for use. During inhalation, the air flow releases an impactor which strikes the tape and releases API into the airstream. API particles are further deagglomerated as they pass through the device. This active aerosolization ensures effective delivery.

Patient-friendly features

The 3M Taper DPI features a number of patient-friendly features to help ensure patients receive the correct dose of medication:

Simple 3 Step Process – Open, Inhale, Close

Ready Indicator – Provides visual indication when device is ready to use

Breath Actuated – Helps ensure effective delivery

Audible Click – Provides audible indication when dose has been delivered

Dose Counter – Easy to read indication of doses remaining

Working with 3M ensures a smooth integration

3M Drug Delivery Systems offers more than 50 years of experience and proven success in technology, product development and manufacturing, coupled with our global regulatory expertise. We can fulfill both your pMDI and DPI needs in an integrated environment for your molecule. And partnering with 3M ensures a smooth process from start to finish, helping you bring your products to market more quickly. Working with us, you get the speed to market that's critical to the success of your new application.

Drug Delivery Systems

3M Center, building 275-03-E-10
St. Paul, MN 55144-1000
USA
1 800 643-8086
FAX 651 737-5265
3M.com/Taper

Drug Delivery Systems

3M House, Morley Street,
Loughborough, Leicestershire,
LE11 1EP England
+44 (0) 1509 613626
FAX +44 (0) 1509 613099
3M.com/Taper

Drug Delivery Systems

33-1, Tamagawadai 2-chrome
Setagaya-ku, Tokyo
158-8583 Japan
(81)3-3709-9671
FAX (81)3-3709-8754
3M.com/Taper

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