5 Reasons To Consider
UNIT DOSE PACKAGING
For Your Product Line

A Must-Read Whitepaper For Companies Operating Within The Healthcare, Dental, Veterinary & Cosmetic Industries
Every company that produces medical, dental, veterinary, and personal care products face many of the same challenges, how to provide their product in an easy-to-use application system that is both effective and convenient.

For any pharmaceutical product, accuracy and the ability to prevent contamination are vital. In order for a pharmaceutical product to be effective, it is critical that the patient receives the precise measured dose required to cure their ailment, while also ensuring the amount is not excessive, so as to not cause immunity or resistance to the product’s active ingredient, which in turn will yield higher product and healthcare costs. As a result, finding a balance is of key importance. It’s also important that the product is kept clean, unadulterated and contaminant free.

For personal care products, convenience is the key. People are on the move more than ever before, and providing an easy, mess-free way to carry and apply a product is crucial.

**Unit dose packaging solutions**, such as Pre-moistened Pro-Swabs and Snap-Tip Tubes, are simple solutions for companies that produce medical, dental, veterinary and personal care products to consider.

**The benefits of unit dose packaging include:**

- Providing fast and accurate application of medical and dental products.
- Preventing cross contamination by being able to use the product once and then throw it away.
- Convenience - its small design makes it ideal for consumers that are on-the-go.
- Travel-ready - convenient sizing complies with TSA regulations for carry-on liquids and gels, making it perfect for travelers who would rather not check their luggage.
- Offering a mess-free delivery method for products such as antiseptics, antibiotics, first-aid, acne, dental solutions and more.

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The pharmaceutical industry is challenged to provide medical and veterinary solutions to patients and animals with a variety of health conditions and medicinal requirements. The time it takes to use a product will not only impact the effectiveness of a product, but may also impact whether or not it is used at all.

**Snap-Tip Tubes** were created with an easy-open design that makes them exceptionally user-friendly. This particular unit dosage packaging is an easy and quick application method for users, where the product or medicine is premeasured helping to ensure consistency in treatment. No extra time is needed to ensure the correct amount is being applied to the affected area.

Snap-Tip Tubes are made from polypropylene material and are available in sizes from .1mL to 30mL. The tube is designed with a break-away tip that, with minimal side action force by the user, will allow access to the contents. This product can be customized to accommodate varying sizes, fill volumes and application needs. This packaging provides flexibility and an innovative solution for companies that produce medical, dental, veterinary and personal care products.

This type of packaging also helps to reduce product or medicine wastage, which will provide a cost-saving for both the pharmaceutical and dental industries that ultimately gets passed along to the consumer.

Premeasured dosage can also decrease the occurrence of toxicity, by ensuring that the end user receives an accurate treatment and does not over treat their condition or ailment. To that effect, it can also help to decrease the occurrence of under treatment. Pharmaceutical companies and consumers can have confidence in their treatment plan and assurance that they are receiving the exact measured dose of the product to increase the probability of healing.

Whether it be teeth-whitening agents or topical antibiotics, having the correct amount of the product is imperative to its effectiveness, customer satisfaction and patient adherence.
In a world that moves faster every day, providing product packaging solutions that are easy for consumers to take with them on-the-go is essential. **Pre-moistened Pro-Swabs** and Snap-Tip Tubes are ideal delivery systems for consumers who want to have their products readily available, whether they are at work, home or traveling out of town.

For a woman, products that can be easily stored and carried are important. Whether it’s a face cream treatment, a skin serum eye treatment, or a pore minimizer ointment, she is looking for something small that she can quickly toss in her purse, and discard when she is done. The product is more likely to be purchased and used if she can take it with her and seamlessly integrate it into her lifestyle no matter how much she is on the move.

For men and women with active lives and hobbies, having products that are easily transportable is vital. For consumers that frequent the outdoors, it might be bug bite ointment or repellent, sunscreen, or nasal moisturizers for allergies they are looking to carry in their coat pocket or duffel bag.

For dental patients on the run, it might be teeth-whitening agents, tooth desensitizers, or gum treatment that they need to have with them in their briefcase or travel kit. For all of these consumers, having product packaging solutions that allow them mobility will be the key to their satisfaction. Single-use application makes it easy for a consumer to use the product and quickly discard it, which in turn alleviates having to worry about carrying a product that may leak during transport.

### Pro-Swabs For Cosmetic Products
- Face Cream Treatments
- Skin Serums
- Eye Treatments
- Pore Minimizer Ointments

### Pro-Swabs For Dental Products
- Tooth Bleaching
- Tooth Desensitizer
- Gum Treatment
- Tooth Varnish

### Pro-Swabs For Medical Products
- Bug Bite Ointment
- Sunscreen
- Anti-Fungal (foot, etc.)
- Nasal Moisturizer
Liquid, gel and cream products are typically packaged in tubes and containers, where either the product touches the user’s fingers or skin, or the applicator included in the package is used more than one time. In cases such as this, repeated use of the same packaging increases the chance of cross contamination which breeds infection with each treatment.

Pre-moistened Pro-Swabs are a single-use/single-application system with an easy snap-open design, where the product never has to touch the user’s finger and can be disposed of immediately following its use. Each package includes an applicator that can be filled with the desired liquid, gel, ointment or cream product. Pro-Swabs are manufactured with polypropylene resin and are available in sizes from 4” to 5” with capacities that range from .10mL to 6mL, which allows companies to determine the optimal size that will meet their product’s needs.

Antiseptics are an example of a product that, when used correctly, can reduce the bacteria on a person’s skin prior to surgery and/or injections. However, if they are used or packaged incorrectly, they can propose a risk to patients.

The Infectious Diseases Society of America recommends that to further reduce the risk of infection with improper topical antiseptic use and the possibility of these products becoming contaminated with bacteria during use, that manufacturer’s package antiseptics indicated for preoperative or pre-injection skin preparation in single-use containers. ¹

Unit dose packaging provides the consumer with the reliability and peace-of-mind of the purity of the product that they are using. Once they are finished using it, they can simply discard the applicator, and use a new applicator for their next treatment.

American Empire Manufacturing’s cGMP/cGDP compliant facility includes an ISO-8/Class 100,000 Clean Room Suite that ensures reliability in packaging and is ideal for companies operating within regulated industries such as healthcare, veterinary, dental and cosmetics.

For consumers that travel often, personal care and cosmetic products need to be packaged in a way that meets Travel Security Administration (TSA) travel regulations. The TSA limits the total volume of liquid, aerosols, and gels that passengers traveling by plane are allowed to carry. Each traveler is allowed a one quart bag for products in containers that are 3.4 ounces or less (by volume).  

Pre-moistened Pro-Swabs and Snap-Tip Tubes are made to be easily transportable, as they are available in sizes as small as .1mL.

From business travelers who need to move quickly through the airport by avoiding the luggage carousels, to low budget travelers who are looking to save on their baggage fees, the size of the products they carry is critical to ensure that they get where they need to go in the easiest, most efficient way possible.

Packaging products in a convenient, single dose application that meets TSA regulations will give consumers ease and flexibility in the way that they choose to travel and pack their belongings.

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2 3-1-1 for Carry-one (2014), [http://www.tsa.gov/traveler-information/3-1-1-carry-ons](http://www.tsa.gov/traveler-information/3-1-1-carry-ons)
In conjunction with contamination concerns, Pre-moistened Pro-Swabs single-dose application offers a new packaging option for existing products that is mess-free.

For products that do not offer this type of application, how and when to use the product becomes inconvenient and at times, messy. The end-user may have to get the product or medication on their fingers or hands in order to apply it, which can in turn make it inconvenient to use in a location that does not offer a place to clean their hands.

Multi-use packaging also has the potential to leak during transport.

When the product needs to be opened repeatedly to use multiple times, it poses a risk that the package will not be closed properly, increasing the likelihood of it spilling into the consumer’s purse, briefcase, or duffel bag. This can decrease the usage and overall customer satisfaction, as well as future purchase behavior for products in this type of packaging.

With Pre-moistened Pro-Swabs consumers have increased flexibility of where and when they are able to use and carry the product. With an easy-to-use applicator that has a snap open design, a consumer will have the confidence to use the product effectively without it touching their hands.
Pre-moistened Pro-Swabs and Snap-Tip Tubes (Unit Dose Packaging) are simple solutions for companies that produce medical, dental, veterinary and personal care products. Unit Dose Packaging also can help to ensure adherence to treatment plans, by dispensing a product in a format that is exact, user friendly, and mess-free.
Thanks For Reading!

For More Information About Unit Dose Packaging...

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