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Anodized Device Delivery: The New Face of Medical Packaging

Traditionally, the appearance of medical devices was an afterthought and not considered a critical element of design. However, with more devices being used directly by the patient, aesthetics have come to the forefront. This article looks at a technology that helps maintain a high level of functionality in the packaging of a device and couples it with a great appearance.



Anomatic's technologies and capabilities in the medical and pharmaceutical categories bring the durability and sustainability to global manufacturers and patients alike.

By Steven Rusch

Advances in device delivery technology are significantly shifting the focus from strictly functional to a more subjective aesthetic that not only meets the needs of medical applications, but is also visually appealing. Whether handled by medical professionals or the individual patient, these tools—and more importantly, the materials comprising them—must step up to meet current industry needs.

One specialized finishing process, anodizing, is leading the way from both a design appeal and engineering function perspective.

Anodizing, the electrochemical process of oxidation of aluminum, is widely used throughout the world for a variety of functional and decorative applications. Known as green chemistry (and an FDA-approved technology), the anodized finish is proving to be an increasingly innovative application for inhalers, injection devices, surgical instruments, and medical implants. Following are two common questions that systematically develop when considering the integration of any new medical packaging or application.

Does It Meet My Operational Needs?

Commonly selected due to its inherent sterilization properties, anodized components eliminate the risk of contamination for both medical professional and patient. In addition, anodizing serves to function as a protective barrier that ensures durability, safety, and optimal performance in device delivery. Apparatus rely upon the anodizing benefits such as these in the medical world, where safety is critical.

Does It Meet My Design Needs?

In our highly mobile and visual society, medi-

cal devices for drug delivery are always at the patient's fingertips. Methods for delivery are being designed so that the user is uninhibited with regard to carrying and operating the device in public, making functional design and style more important than ever before. Anodizing's benefits are twofold—it provides the rigidity and robust package a consumer needs for everyday use and is the premier finish for design and color offerings.

Conclusion

In the end, medical packaging and device delivery boils down to managing design and engineering. Thanks to advanced technologies, medical devices are more functional and visually appealing than ever before.

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