

Drop-In, Fit-In, & Built-In™

Sorbent Solutions for In-Vitro Diagnostic and Medical Devices

Drop-In, Fit-In, & Built-InSM

Multisorb Technologies, a global leader in cutting-edge active packaging technologies, offers drop-in, fit-in, and built-in sorbent integration approaches for effective moisture and oxygen control in in-vitro diagnostic (IVD) and medical devices. Multisorb offers customized solutions that are integrated into the device in three unique ways to protect against moisture and/or oxygen, which can damage sensitive device components, and interfere with test results - including reduced reaction times.



Drop-In Method

Certain devices, particularly home test kits for pregnancy, blood glucose concentrations and drug content, are single-use devices that are discarded after one test. Multisorb's drop-in desiccant integration approach offers moisture and/or oxygen protection in secondary packaging for these single-use devices to maintain product efficacy. A drop-in solution consists of a traditional desiccant or oxygen absorbing packet or canister.

Fit-In Method

An example of Multisorb's fit-in solution is the integration of Multiform Coated Solid Form (CSF) sorbents, which are custom manufactured to a particular shape and size to fit into the device, creating an onboard solution.

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Utilizing condensed density technology, the Multiform CSF™ sorbent delivers twice the moisture protection in the same dimensional space. This significantly increases the level of functional moisture management per unit volume, enhancing the efficacy of the formulations inside the device system.



Built-In Method

Multisorb's built-in integration approach incorporates adsorption properties into the thermoplastic structural components of the device, adding multifunctional capabilities to an existing device part. This approach provides moisture/oxygen protection to devices specifically engineered for repeat use. Moisture and oxygen management are an important part of any IVD device and choosing the right form and integration approach is crucial. The flexibility offered by Multisorb's drop-in, fit-in, and built-in integration solutions provide customized moisture and/or oxygen management to maintain IVD device integrity, and test result reproducibility.



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