

Healthcare Applications



Arterial Syringe

Porex prescribes the design of a self-sealing vent for arterial syringes used in blood gas analysis. The vent provides syringe manufacturers with an added safety feature – and healthcare workers with better protection against exposure to blood and blood-borne diseases.



Design Challenge

Producers of pump spray bottles for the healthcare industry faced increasing customer concerns over the use of preservatives in their products. Accordingly, pump spray bottle manufacturers contacted Porex in search of a preservative free solution.

Solution

At the time, Porex had no experience with this type of drug delivery system, but our engineers realized that porous plastics offered a possible solution to vent spray bottles while preserving the sterility of the bottle's contents. Porex engineers evaluated and analyzed various antibacterial additives to determine their efficacy with several material combinations. Design considerations included specific antibacterial properties to meet healthcare industry needs such as airflow and economic requirements.

Results

Porex's innovative vent solution incorporates functional additives into a porous structure, offering unique performance characteristics at an affordable cost. While not necessarily a solution for all preservative laden medications, this manufacturer derived a preservative free solution through the incorporation of Porex's material technology.

By combining ideas, know-how and proven results with the highest standard of innovation and excellence, POREX Porous Media provides unique solutions for various applications.

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