

How Candle Filters Can Be Used to Recover Pharmaceutical Product



Companies like pharmaceutical manufacturers rely on highly efficient mechanisms and intricate processes to keep up with demand. These tools properly handle the ingredients and chemical components integral to the production of medicinal commodities. With these streamlined operations, as advanced as they are, there can arise issues and opportunities for improvement. Professionals in the pharmaceutical fields are finding that, through **candle filters**, they can produce higher quality results and safely prevent waste of viable byproducts.

The Initial Process

To produce approved drugs for the market, scientific professionals at pharmaceutical firms must put together the correct ingredients for the desired result. In this industry, however, the process is much more complicated than simply measuring and mixing. **Chemical reactions must take place to produce APIs, or active pharmaceutical ingredients, also known as the ingredients that make up the pills in medicine cabinets.** To initiate, speed up, and control these reactions, special catalysts are added into the mix.

Where Filters Come In

The resulting material, the slurry, must then be clarified and purified, and the catalyst must be extracted. By using filters and centrifugal force, the concentrated, valuable product is separated from an excess waste liquid called the centrate. This is similar to how other models of filters are used in other industrial systems, like a **mist eliminator filter** or a **fiber bed mist eliminator**. The former, as indicated, collects fine water or oil mist from inside gas and air pipes and vents. The latter is an even more exact version of the **mist eliminator**, using finer material and diffusion to trap tiny liquid particles and siphon them into the proper compartment.

Candle Filter Superiority

Filters used in the past to separate the ultimate pharmaceutical substance from liquids with low solids concentrations have proven to be a bit problematic, with excess product waste. Scientists have found **candle filters** to not only be superior at meticulously clarifying the final product but also help companies to retain resources and funds. After a mixed slurry arrives at the centrifugal, filtering portion for separation, it is also washed, and the valuable released substance is called the “cake.” This also produces a “centrate,” or a left-over by product. In less efficient systems, this material retains small amounts of a soluble, formerly viable product, which is wasted. The candle design of clarification can recover such profitable traces instead of being lost. This is achieved by systematically concentrating the substance into separate droplets and collecting afterward. Then a **candle filter** is utilized to concentrate the material more and reintegrate it into the manufacturing procedure.

Reach out to us today for exceptional installation of **fiber glass candle filters** to avoid product waste in your company.

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