

# Dust Collection

## PHARMACEUTICAL APPLICATIONS

### Pharmaceutical Industry

The pharmaceutical industry is responsible for manufacturing and approving medicine. Medicine is needed for people with medical conditions to alleviate symptoms and contribute to the overall well-being of consumers and patients. Pharmaceuticals need to be manufactured safely without contamination of the product.

### Filter Selection

Media selection should be considered. Some options that we have include:

- Spunbond Polyester
- PTFE Membrane Spunbond Polyester
- Spunbond Polyester with Nanofiber
- Polypropylene Spunbond w/wo PTFE
- Aluminized Spunbond\*
- Carbon Impregnated Spunbond Polyester with PTFE\*

\*For Grounded Requirements

Dust Collection is needed to capture and control dust, bacteria, and other pollutants generated by the processes of making the medicines including:

- Tablet Pressing
- Mixing & Blending
- Coating & Drying
- Granulation



# KEEPING MEDICATIONS SAFE

## Product Quality

Most manufacturers will tell you that product quality is one of the most important aspects of manufacturing. Dust collection is used in order to ensure product quality by improving the quality of the air. More specifically, it reduces anything that could potentially contaminate the product such as bacteria, viruses, fibers, dust particles, etc.

Contamination can come from many sources. Factory equipment that isn't sanitized properly, the raw materials used in production, and even factory personnel can introduce contaminants into the product by not following protocol. There are risks of cross-contamination which can interfere with product quality. This occurs when a product/ingredient are mixed with another. Cross-contaminated products can have health effects on the user.

## Processing Ingredients

Some ingredients used to make medicines include a variety of different substances such as powders, corn-starch, cellulose, etc.

Active Pharmaceutical Ingredients (APIs) which are what makes the drug work can be composed of toxic properties which need to be controlled to protect workers and prevent cross-contamination.

## Health Hazards

Dust generated from pharmaceutical processes can be harmful to one's health. Health effects include:

- Eye/Skin Irritation
- Occupational Asthma
- Respiratory Illnesses & Lung Cancer

## Combustible Risks

Pharmaceutical applications generate a high risk of combustion and explosions. These explosions occur within the dust collector itself and the cartridges. All it takes is one spark to ignite to turn into a dangerous situation. In order to contain the explosion, grounded cartridges are used to minimize risks.

We offer food grade cartridges and grounded cartridges for combustible applications.

## FDA Regulations (CGMP)

The FDA has regulations on the Food & Drug Industries in order to protect the health and safety of consumers. In order to meet standard regulations, facilities have to have a cleaner and hygienic environment to allow medicines to be manufactured safely.

Current Good Manufacturing Practices (CGMP) have basic principles set up to regulate the production of food and pharmaceutical products.

One way to make sure these regulations are met is to install a dust collection system. Dust collection would cut down on clean up time and keep the air clean, safe, and breathable.

## Dust Collector Filters

At Environmental Filter, we manufacture dust collector cartridge filters for many applications including the pharmaceutical industry.

They are an important part of the industry to prevent cross-contamination, protect works, and help comply with safety regulations.



**ENVIRONMENTAL  
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