

Polipleet® Pleated Cartridge Filter Media

- High media efficiency
- Space savings
- Versatility
- Proven superior performance

Application

Polipleet® cartridge media provides more efficient fine-particulate filtration than conventional felted media. Superior media efficiency results in lower emissions and improves environmental quality indoors and outdoors.

Effective filtration area is maintained because of the generous pleat spacing and shallow pleat depth.

Filter elements are compact, saving valuable production space. Most existing fabric collector housings can be retrofitted to increase production capacity and to reduce emissions. New installations benefit from smaller housing sizes.

All materials used in the Polipleet® cartridge have been tested and passed by an independent laboratory in accordance with FDA rules for direct dry food contact.



Operating principle

Polipleet® media is 100% polyester spun bound. It is created by having two different polyester resins continuously sprayed through miniature nozzles onto a moving web. One of the resins has a slightly lower melting point. The mat is drawn through heated rollers that compact and fuse the fibers together, forming surface patterns into both sides of the media. The resulting media has the following characteristics:

- Strong continuous fibers
- Small fiber size
- Burst strength similar to felt
- Dense, thick mat
- Small pore size
- Strength in all directions
- Thermally stable
- Same permeability as needled felt

Specifications

Standard materials used for Polipleet® are: polyurethane in the top and bottom caps; polypropylene inner core, and polyester media. There are no metal components used in cartridges rated up to temperatures of 200 °F (93 °C).

On the cartridges rated up to 265 °F (129 °C), the inner polypropylene core is replaced with a zinc plated carbon steel perforated tube. The polyurethane top and bottom are replaced with galvanized steel and utilize a top of a snap band bag to snap into the tubesheet which performs the function of sealing the cartridge to the tubesheet.

For special applications, stainless steel components can be utilized as well as a variety of filter medias such as Aramid and PPS.



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