

HIGH TEMPERATURE PLEATED BAGS

Cartridge filters are assembled using a variety of components that have different temperature limits. In developing a temperature resistant filter, the parts that must be considered are the media, gasket, and all the adhesives.

The following listing is a brief guideline describing the filter media used for different temperatures. For each level the media, component parts, and adhesives have been thoroughly qualified to operate successfully.

275° F Level

This is the maximum upper limit for polyester spun bond media.

275° Level

For this temperature level there are two more choices: polyester filter paper (TDC/Midwesco's SX) and polyester felt. Compared to felt media, SX is more efficient and has better release characteristics .

Also, the SX filter will have more media, which reduces restriction.

375° Level

TDC/Midwesco's KV is the recommended choice for this elevated temperature level. KV is made from select Kevlar, Nomex and glass fibers. It is pleatable so a cartridge may be made with either close or open pleat spacing. Note that there are a number of felts, which will withstand this temperature, including: Aramid, Nomex, P84, etc.

500° Level

To achieve this level of temperature resistance, it is necessary to use fiberglass media combined with specialized adhesives.

As many chemicals become more active at elevated temperature levels, it is recommended that the chemistry and moisture content of the gas stream be identified. It is crucial for component compatibility check.

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