

DimplePleat® LB

LOW BORON HEPA FILTERS



- Economical alternative to PTFE membrane
- Filter can be challenged with oil-based aerosols
- Maximum utilization of media
- No blockage of airflow caused by separators
- No potential for offgassing from glue lines



Filters for ceiling grid systems incorporate an integral ¾", 1", or 1¾" filter skirt on the downstream perimeter. The filter media is formulated from all-glass microfiber with a water-repellent binder. The glass microfiber contains less than 10 PPM of boron when digested in acid and analyzed via Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES).

AAF Flanders Offers The "Low Boron Glass" Cleanroom Filter—The DimplePleat® LB

Traditional HEPA and ULPA filter media are manufactured with borosilicate glass microfibers containing up to 20,000 to 30,000 PPM of boron by weight in the form of B_2O_3 . AAF Flanders' ULPA filter in its unique DimplePleat LB design uses glass microfiber that has less than 10 PPM of boron. This low boron media composition can be used in all standard grades of filter efficiency and depths. The boron in this glass medium is present at B_2O_3 and is therefore not a significantly volatile component. The DimplePleat LB design can be challenged at common concentrations with oil based aerosols, such as Polyalphaolefin (PAO). When tested with oil-based aerosols, the DimplePleat LB filter does not experience an increase in static pressure or a reduction in the life expectancy of the filter.

AAF Flanders also uses phosphorous-free polyurethane components to bond the media to the filter frame. When other sources of volatile contaminants are present, AAF Flanders' HMZD, a unique bonded, non-dusting, cleanroom-compatible activated charcoal adsorber, solves this problem.

Construction

DimplePleat LB filters are assembled and tested in a minimum Class 10,000 (at rest) production area with documented class level and gowning procedure observed.

Filter frames are fabricated from aluminum extrusions having a clear anodized finish. Corner joints are mitered and joined using a one-piece corner-lock that securely fastens into slots provided on the frame extrusion.

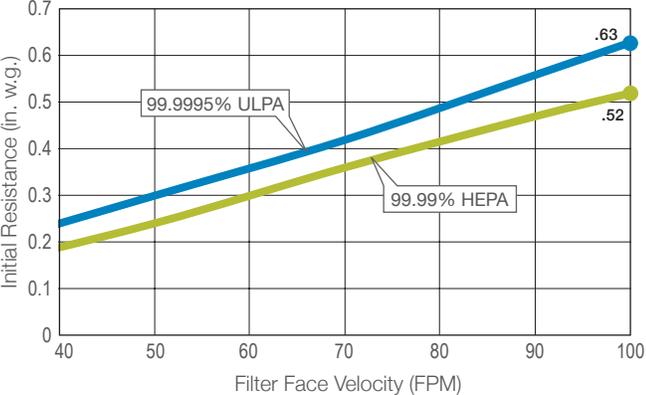
The filter pack is machine-pleated to a minimum of 7.5 folds per inch from a continuous sheet of media and is 2", 3", or 4" deep. The filter pack is continuously bonded to the filter frame with a fire-retardant, UL Classified solid urethane. All filters are UL 900 Classified.

DimplePleat® LB Filters

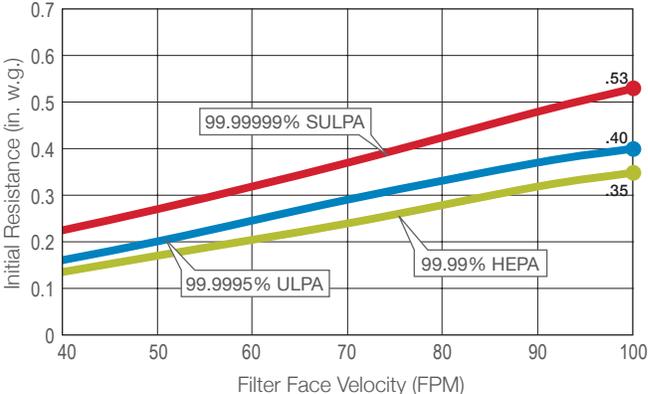
Performance Data

Initial Resistance vs. Filter Face Velocity

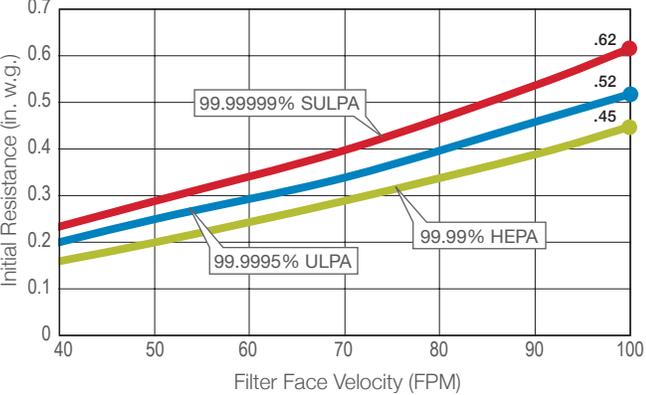
2" Filters



4" Filters



3" Filters



DimplePleat® is a registered trademark of Flanders Corporation in the U.S.



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