Европейский стандарт для EPA, HEPA и ULPA фильтров

Procedure

- On a flat sheet of media, the MPPS is determined for the given media velocity. This can be done with a laser spectrometer or a combination of electrostatic classifier and CNC (Condensed Nucleus Counter).
- The filter is assembled with the specified media grade and amount of media to comply with the defined media velocity.
- The filter is challenged with an aerosol and at the MPPS both the local and overall efficiency are determined with either a CNC or laser spectrometer.
- Leaks are specified as maximum allowable local penetration at the MPPS and must not exceed 5 x the overall penetration.
- The filter is classified according to the test results in the range E10 E12 for EPA, H13 H14 for HEPA, U15 U17 for ULPA.

Filter Classification

Overall Value	Local Value	Overall Value	Local Value
E10	>	85	-
E11	>	95	-
E12	>	99,5	-
H13	>	99,95	99,75
H14	>	99,995	99,975

U15	>	99,9995	99,9975	0
U16	>	99,99995	99,99975	0
U17	>	99,999995	99,9999	

Notes:

- Filters in the class E10, E11 and E12 do not require verification of local penetration.
- Filters in the classification H13 and H14 may, as an alternative, be verified with the visual oil-smoke test (previously known
- as DIN 24.184), which is accepted as equal or more searching than the specified local penetration.
- U17 is an exception to the rule. In this case local penetration may not exceed 20 x the overall penetration value.