

Testing of air and oil filter :

- Ventilation filter (ISO 16890; EN 779; ASHRAE 52.2)
- HEPA/ULPA Filter (EN 1822-4; EN 1822-5)
- Cabin air filter (ISO 11155-1; ISO 11155-2)
- Engine intake filter (SAE J726 ; ISO 5011)
- Flat sheet filter media (EN 1822-3; TSI 8130)
- Multi-pass for oil filter (ISO 16889; ISO 19438; ISO 4548-12)
- Respiratory protective device (NIOSH 42 CFR 84; ASTM F2100)



Testing items of the major performances:

- Pressure drop versus air flow rate for clean filter
- Initial pressure drop and initial efficiency
- Dust loading capacity
- Efficiency after different dust loading phases and average efficiency
- Breach testing
- Efficiency and filter scanning for HEPA/ULPA filter
- Most penetrating particle size (MPPS) for filtration media
- Bacterial filtration efficiency for facemask and filtration media



Setup of testing equipment

- EN1822-4 automated filter scanning test system
- Test rig per ASHRAE 52.2 and EN 779
- Engine filter testing rig per ISO 11155-1
- Filtration media and face mask test rig



Filter scanning test



HVAC filter test



Oil filter test



Cabin filter test



Filtration media test

Taiwan Textile Research Institute

No.6, Chengtian Rd., Tucheng Dist., New Taipei City, Taiwan

TEL: +886-2-22670321 Fax: +886-2-22689839

Contact us: Ming Chuan Hu; mchu.0814@ttri.org.tw