



# Solutions for Respiratory Diagnosis, Respiratory Care, and Ventilation Therapy

Hollingsworth & Vose is a world-leading provider of quality filtration materials designed to remove contaminants at the lowest possible pressure drop, while extending the life of the filter. With over 100 years of history behind our products, H&V produces a wide array of materials for medical devices globally. We understand the critical role that bacterial and viral filters play in managing infection prevention and safety in healthcare settings. We offer comprehensive product lines of non-woven media that are used every day in the fight against the spread of microorganisms.

## A Product Line Fit for the Challenge

For producers of consumables used in Pulmonary Function Test (PFT) systems and mechanical ventilators, H&V Technostat® filter media provides the ideal protection for patients, staff, and equipment. Filters using H&V Technostat® media greatly reduce aerosols, in patients inhaled and exhaled air, achieving over a 5-log reduction in bacterial and viral loads.



Technostat® is a lofty synthetic material, characterized as a coarse fibred electret with exceptional depth loading. H&V's Technostat® products have been the go-to solutions in pediatric and adult bacterial and viral filters for the past 30 years.

## Applications

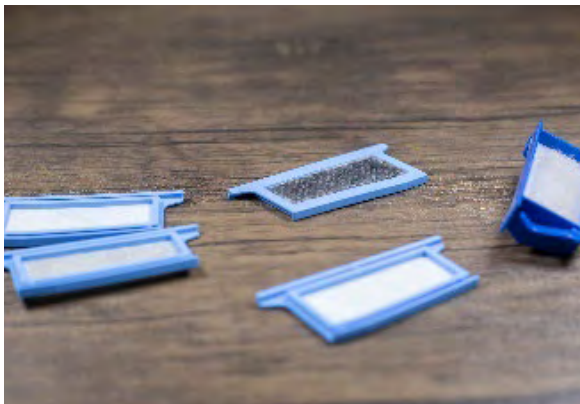
### PFT Systems:

- Suitable for inspiratory and expiratory circuits
- Suitable for adult, pediatric, and infant protective filters
- BFE: >99%, PFE~ 98%
- Typical Resistance: 7-9 Pa at 30L/min
- Non-cytotoxic



### Home Care Settings for Mechanical Ventilators:

- Suitable for CPAP/APAP/BiPAP machines
- BFE: >99%, PFE~ 98%
- Typical Resistance: 7-9 Pa at 30L/min
- Non-cytotoxic



## Health Care Settings for Mechanical Ventilators:

- Used in critical care, neonatal, sub-acute care, intra and inter hospital transport, ER and home care (sub-acute, chronic)
- Suitable for inspiratory and expiratory circuits
- Suitable in HMEF Systems
- ISO 22328-1 Compatible
- BFE >99.999%, VFE >99.99%
- Typical Resistance 27-30 Pa at 30L/min
- Non-cytotoxic



## Safety Matters:

At H&V, we understand the importance our customers place in knowing early on that a filter media is suitable and safe for use in respiratory applications. The following test results have been performed and passed successfully:

- ISO 10993-11:2017 Systemic Toxicity
- ISO 10993-5 Cytotoxicity
- ISO 10993-23: 2021 Skin Irritation

Third-party lab data is available upon request.



**HV** **Technostat**®  
A Hollingsworth & Vose Innovation

## About Hollingsworth & Vose

Hollingsworth and Vose is a global manufacturer of advanced materials used in filtration, battery, and industrial applications. Family-owned for seven generations, the company's origins go back to the early 1700s and we have evolved continuously since that time.

Today, H&V's advanced materials contribute to a cleaner world through their use in products that provide clean air, clean liquids, and energy storage. Our Company is headquartered in East Walpole, Massachusetts USA, with 13 manufacturing and research & development facilities in the Americas, Europe, China, and India.