RESPIRATOR

Superior Felt and Filtration has a long history of developing cutting edge respirator products through the use of technically engineered nonwoven materials. By combining our high efficiency tribo-electret filter media Technostat® and various charged and mechanical nonwovens, including melt blown media, our technicians can develop a respirator that can efficiently filter out a number of harmful contaminants. These layers can be arranged to pass even the most stringent international respirator standards, including NIOSH and European EN143 and EN149 standards.

A Respirator is a device designed to protect the wearer from inhaling harmful dusts, fumes, vapors, or gases. Respirators come in a wide range of types and sizes used by the military, private industry, and the public. Respirators range from inexpensive, disposable masks to reusable models with replaceable cartridges. There are two main categories: The air-purifying respirator, which forces contaminated air through a filtering element and the air-supplied respirator, in which an alternate supply of fresh air is delivered.

Oil resistance	Rating	Description
Not oil resistant	N95	Filters at least 95% of airborne particles
	N99	Filters at least 99% of airborne particles
	N100	Filters at least 99.97% of airborne particles
Oil Resistant	R95	Filters at least 95% of airborne particles
	R99*	Filters at least 99% of airborne particles
	R100*	Filters at least 99.97% of airborne particles
Oil Proof	P95	Filters at least 95% of airborne particles
	P99	Filters at least 99% of airborne particles
	P100	Filters at least 99.97% of airborne particles
*No NIOSH approvals are held by this type of disposable particulate respirator.		

Class	Filter penetration limit (at 95 L/min air flow)
P1	Filters at least 80% of airborne particles
P2	Filters at least 94% of airborne particles
P3	Filters at least 99.95% of airborne particles

Applications

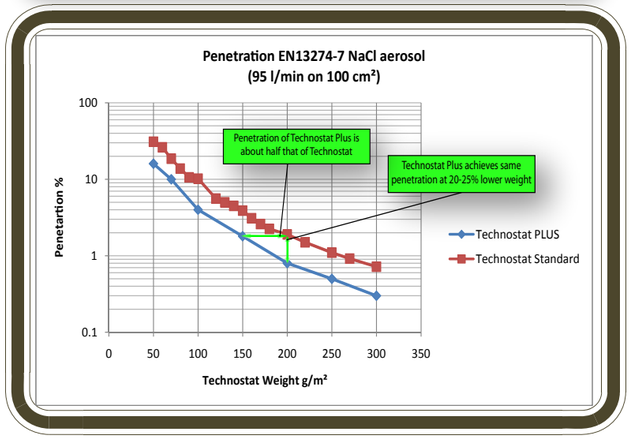
- DISPOSABLE SURGICAL MASKS
- AIR PURIFYING MASK FILTERS
- AIR SUPPLIED MASK FILTERS
- SURGICAL HOODS
- SMOKE HOODS

RESPIRATOR

SUPERIOR FELT & FILTRATION

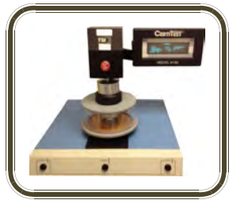
Technostat®, our world leading electrostatic filter media, is ideally suited for use in a number of respiratory applications since its low air flow resistance equates to better breathability through the masks or devices, resulting in reduced fatigue and higher comfort levels. In addition, Technostat® can be combined through the use of breathable laminates to activated carbon and other materials for combined dust and gas filtration.

Our new electrostatic media, Technostat Plus is a surface charged tribo-electret needle-punched felt that offers 20% gains in efficiency over our standard electrostatic media. The material obtains its charged properties when the two dissimilar fibers used during the manufacturing process create a charge that enhances filtration capabilities. This embedded charge degrades less over time increasing the shelf life of the products. The media is available in weight ranges of 30-1000 g/m² These very breathable materials can be combined with melt blown media and spun bond media to achieve the highest levels of respiratory filtration.



Services

- HEAT WELDING (DIE CUTTING)
- ULTRASONIC DIE CUTTING
- NIOSH BENCHMARK TESTING
- LAMINATION
- COMPOSITE BUILDING



www.superiorfelt.com