

Airflow Filters INC
Safety Face Masks
Data Sheet

Introduction:

CDC GUIDANCE:

As provided by the Centers For Disease Control (CDC) an N95 FFR is a type of respirator which removes particles from the air that are breathed through it. These respirators filter out at least 95% of very small **(0.3 micron)** particles. N95 FFRs are capable of filtering out all types of particles, including bacteria and viruses.

However, face masks are not to be confused with Respirators. Refer to the CDC guidance which in summary states

“unlike to close fitting and sealed approved N95 approved respirator, facemasks are loose-fitting and provide only barrier protection against droplets, including large respiratory particles. No fit testing or seal check is necessary with facemasks. Most facemasks do not prevent leakage around the edge of the mask when the user inhales. The role of facemasks is for patient source control, to prevent contamination of the surrounding area when a person coughs or sneezes. Patients with confirmed or suspected COVID-19 should wear a facemask until they are isolated in a hospital or at home”

Airflow Filters (AFF) Face Masks

Face masks manufactured by Airflow Filters INC. all include at least one layer of MERV 13 filtration material rated to remove particles as small as **0.3 microns**. This material is used in our Higher Efficiency HVAC filters that are effective in providing superior home air filtration. What is seen by the naked eye are typically larger than 10 microns. Particles particularly those that measure below 4 microns can cause significant health problems.

MERV ratings allow you to effectively compare one type or brand of filter to another. User’s Guide for ASHRAE Standard 52.2-2007 shows MERV 13 and above filtration ratings are appropriate application in general surgery, hospitals, and health care facilities.

While AFF face masks are made with high quality MERV 13 materials they are not designed or recommended for surgical applications. AFF face masks are high quality general use masks that offer significantly higher filtration than fabric masks alone.

Per industry standard, MERV 13 materials meets the following:

MERV	Min. particle size	Typical controlled contaminant
13	1.0–0.3 μm (microns)	Bacteria, droplet nuclei (sneeze), cooking oil, most smoke and insecticide dust, most face powder, most paint pigments

AFF MERV 13 Material Specification:

Physical Data

Media: 100% Non-woven synthetic media manufactured from natural and recyclable (cotton and polyester) material

Origin: Made in the United States of America

Media Support: Needled to MERV 13 Specification and hand sewn with single or dual layers of filtration material.

Mask Design: Cups, pleated or fashion design contours

Frame: None. Machine sewn borders

MERV 13 filtration materials stop particles as small as 0.3 microns. These filters are used in hospitals and other super clean environments. MERV 13 means the home air filter is 89-90% minimum efficient at capturing measured particles bacteria, tobacco smoke, and particles that make you sneeze. Most of the dangerous particles in the indoor air cannot be seen by the human eye.

MERV RATINGS

Minimum Efficiency Reporting Value, or MERV for short, is a filter rating system devised by ASHRAE, the American Society of Heating, Refrigeration, and Air Conditioning Engineers, to standardize and simplify air filter efficiency ratings for the public. The higher the MERV rating, the more effective the air filter.

MERV ratings allow you to effectively compare one type or brand of filter to another. National Air Filtration Association User's Guide for ASHRAE Standard 52.2-2007 shows MERV 13 and above are the appropriate application in general surgery, hospitals, and health care facilities.

AVAILABLE AFF DESIGNS

FASHION PLAIN

Dual layer of MERV 13 Filter Material designed for a comfortable fit



CUP

Traditional mask design with dual layers of MERV 13 Filter Material



FASHION FABRIC

Stylish and comfortable with one or two layers of MERV 13 Filter material overlaid with attractive fabric



PLEATED

Traditional pleated mask design with single layer of MERV 13 Filter Material. Easy fit and comfortable

