

# mPactAir99 MASK MEETS THE CDC ASTM TESTING CRITERIA FOR PERSONAL FACEMASKS

October 2021

## Technical Bulletin: U.S. and European Testing Guidelines for Personal Face Barriers



### Overview:

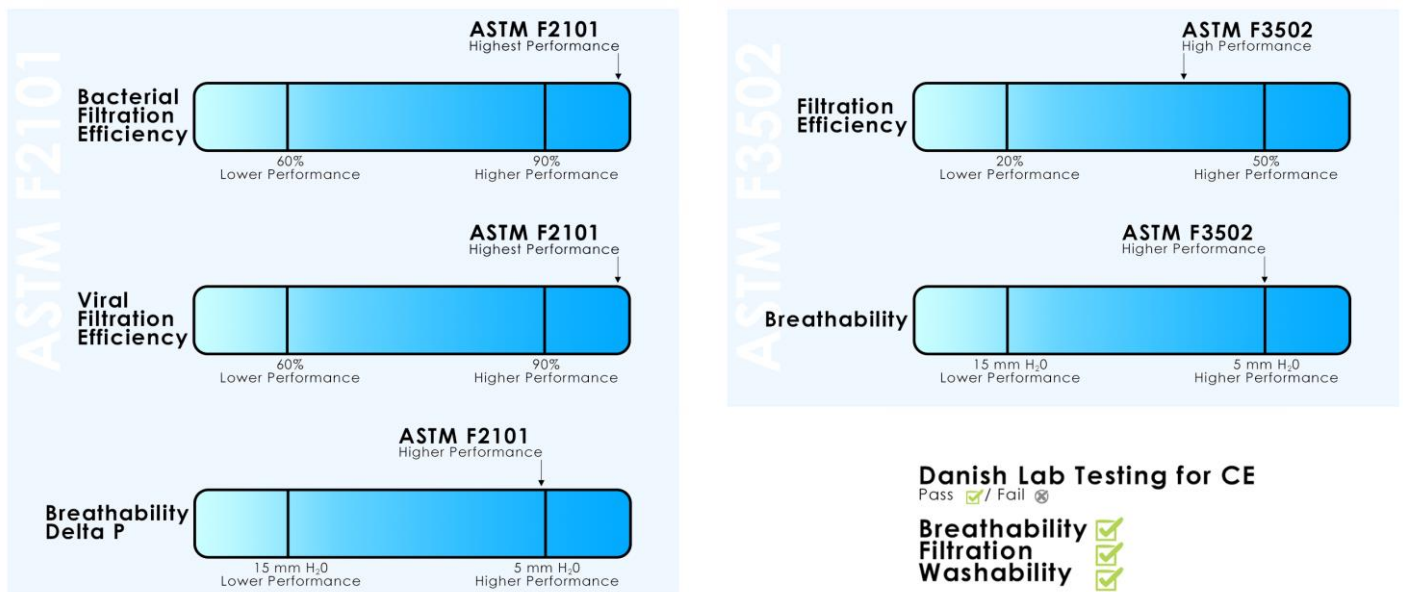
The CDC has developed two testing standards for Personal Face Barriers. One test, F2101 is based on FDA medical grade mask specifications which is required for all medical/surgical grade mask to be sold in the market prior to the pandemic. The pandemic caused confusion in the market on Personal Face Barriers (PFB) requirements as multiple types of mask materials are now used by the general population in light of the limited supply of medical grade surgical masks which were never designed to be worn for long periods of time. The CDC developed new test parameters for this non-medical market known as F3502. This testing protocol is new and is ever evolving as more manufacturers submit products for testing. The CDC has placed this new standard under OSHA rather than the FDA. American Testing Standards and Materials (ASTM) is the governing body of establishing protocols for both test that are carried out by several independent labs across the country such as Nelson Labs and Intertek.

Europe utilizes the CE (European Conformity) guidelines to regulate medical/surgical masks. There are no current testing criteria for PFB for the general population, causing individual countries to create their own testing in an effort to establish broader CE testing standards. Denmark was the first country in the EU to develop extensive testing protocol which are in the process of being adopted for full CE approval.

**Testing Results:** mPactAir99 meets the CDC standards for both ASTM F2101 and ASTM F3502.

*Note: the F2101 is a series of test comprising of Filtration, Breathability, Splatter Efficiency and Flammability. mPactAir99 is for NON-MEDICAL use and therefore not designed, nor was submitted, to pass the fluid splatter test. All other test are the same filtration and breathability standards used for Bacteria and Viral Filtration Efficiency required for medical/surgical grade mask.*

mPactAir99 are compliant with the new barrier face covering ASTM F3502 mask standard, which takes into consideration the entire mask including filtration efficiency, breathability, fitting (reduced gaps and leakage), washability, fabric & filter material used (safe, inert and non-toxic), product labeling, and package guidelines, along with many other specifics.



Denmark also tested mPactAir99 masks in developing the CE criteria and has approved the mask in country whilst assisting with development of final CE standards for the rest of the EU countries. mPactAir99 expects to receive full CE certification before end of year.

As an ASTM Member, mPactAir and BMT Fibers are committed to full transparency so you can be an informed buyer, and will always display any/all USA accreditations and full ASTM International compliance on our website.

