

## COMPLIANCE - COMPARISON CHART U-mask vs N95 masks

U-mask is acertified FFP2 class facemask with a Bio-Activated layer inside which improves its performance to beat the highest standards available on the market such as European EN149 FFP3 and American N95

U-MASK PROTECTS FROM:	TYPICAL CARBON FILTER MASK N95 PROTECTS FROM:
<p>non volatile solid and/or liquid particles (DUSTS MISTS FUMES and microbial agents )</p> <p>DUSTS are solid particles of several sizes generated by crushing solid materials.</p> <p>MISTS are particles of evaporated liquid and then condensed or mechanically atomized, in airborne (they may be water basis or organic basis).</p> <p>FUMES are particles of evaporated or melted solids and then rapidly cooled in small size (less than 0.4 µm); generally they come from combustion, smelting or welding processes.</p> <p>Dusts, mists and fumes are therefore airborne solid particles which need a mechanical and electrostatic filter to be removed.</p>	<p>non volatile solid and/or liquid particles (DUSTS MISTS FUMES and microbial agents )</p>
SIZE OF Particles	SIZE OF Particles
greater than 0,1 microns	greater than 0,3 microns
MAX. CONCENTRATION LEVEL ( NPF* )	MAX. CONCENTRATION LEVEL ( NPF* )
<p>up to 50x TLV **</p> <p>* Nominal Protection Factor</p> <p>**TLV = time-weighted average contaminant concentration to which the user may be exposed without any health effects</p>	<p>up to 12x TLV **</p> <p>* Nominal Protection Factor</p>
MINIMUM EFFICIENCY	MINIMUM EFFICIENCY
<b>99,85%</b>	<b>95%</b>
U-MASK DOES NOT PROTECT FROM:	TYPICAL CARBON FILER MASK N95 DOES NOT PROTECT FROM:
<p>Chemical vapors/ gases</p> <p>Oxygen deficient atmosphere</p> <p>High risk exposures such as those created by aerosol-generating procedures</p>	<p>Chemical vapors/ gases</p> <p>Oxygen deficient atmosphere</p> <p>High risk exposures such as those created by aerosol-generating procedures</p>
DURATION	DURATION
<p>U-mask is reusable</p> <p>The Bio-activated layer inside U-mask will Bio-degrade viruses and bacteria passing through the menbrane, rendering them harmless. The experience conducted with bio-degradation of chemical compounds into AIRcel Bioreactors using the same</p>	<p>N95 are disposable, one time use only</p> <p>The contaminant sit on top/ inside the mask until disposed.</p>