<Attachment > **Comparison of Each Country's Mask Standards**

Classification		Korea (KF94)	US (N95 for medical use)	Europe (FFP2 for medical use)
Item category		Non-medicine and medical supplies	Medical instrument	Medical instrument
Dust collection efficiency	Sodium chlorine test	94% or more	95%	94%
	Paraffin oil test	94% or more	-	94%
Leak rate		11.0 or less %	-	11.0% or less
Facial area inspiratory resistance		70Pa or less	343Pa or less	70Pa or less (30L/min) 240Pa or less (95L/min)
Test of adherence		(100 or less)	Fit factor: 100 or less	-
Filtration efficiency of bacteria		(98% or more)	98% or more	-
Filtration efficiency of particles		(98% or more)	98% or more	-
Differential pressure evaluation		(suitable for the US and EU standards)	Less than 6.0 mmH_2O/cm^2	Less than 49.0 Pa/cm^2
Biocompatibility		○	○	○
Microbial limit		(30 CFU/g or less)	-	30 CFU/g or less
Facial area CO_2 concentration		(1% or less)	-	1% or less
Penetration resistance of artificial blood		Need to check	160 mmHg	16 kPa or less
Flame retardancy		Need to check	○	-

* ☐ : Test item

* ( ) : Indirectly check with another test result

※ Almost equivalent to the performance of the US (N95) and Europe (FFP1, 2, 3).

<Test Items>

* **Dust collection efficiency (filtration efficiency of particles):** Test measuring how much external fine particles are blocked

* **Leak rate (adherence):** Test measuring the external air amount leaking in when a person leads his/her day-to-day life wearing a mask

* **Facial area inspiratory resistance (differential pressure evaluation):** Test measuring how difficult it is to breathe after wearing a mask

* **Filtration efficiency of bacteria:** Test measuring how many bacteria are blocked by a mask

* **Biocompatibility**: Test on whether the material of a mask is safe for the human body

* **Microbial limit:** Test measuring the microbial pollution level of a mask

* **Facial area CO_2 concentration:** Test measuring the accumulated CO_2 concentration after wearing a mask

* **Penetration resistance of artificial blood**: Test measuring how much a mask blocks the spouting blood

* **Flame retardancy:** Test on whether a mask is made of materials that are not easily flammable