



# Protective Respiratory Face Masks R Series Technical Data Sheet



## Product Description

Our R series respiratory disposable mask with advanced Filtract technology is specially designed to provide high end protection against dust and other airborne particles.

## Filter Penetration and Total Inward Leakage

Test		European Standard EN 149:2001+A1:2009			Korean Standard KMOEL - 2017-64			USA Standard NIOSH 42 CFR 84 (Not Oil Resistant)	
		FFP1	FFP2	FFP3	KF80	KF94	KF99	N95	N99
Particle Filtration Efficiency (%) NaCl 0.3 μm		80%	94%	99%	80%	94%	99%	95%	99%
Breathing Resistance	Inhalation (30l/min)	0.6 mbar	0.7 mbar	1 mbar	≤ 60 Pa	≤ 70 Pa	≤ 100 Pa	Not Required	Not Required
	Inhalation (95l/min)	2.1 mbar	2.4 mbar	3 mbar	Not Required	Not Required	Not Required	Not Required	Not Required
	Inhalation (160l/min)	3 mbar	3 mbar	3 mbar	Not Required	Not Required	Not Required	Not Required	Not Required
Leakage (%)		≤ 22%	≤ 8%	≤ 2%	≤ 25%	≤ 11%	≤ 5%	Not Required*	Not Required*

*Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to hazards.*

## Standards

Products are classified by filtering efficiency and maximum total inward leakage performance (FFP1, FFP2 and FFP3), (KF80, KF94, KF99), (N95, N99) also by usability. A full copy of EN 149:2001+A1:2009 (Europe), KMOEL-2017-64 and NIOSH 42 CFR 84 (USA) can be purchased from your national standards body.

## Components and Materials

Component	Material
Outer Layer:	Spunbond Polypropylene Non-Woven
Middle Layer:	Spunbond Polypropylene Non-Woven
Filter Media:	Meltblown (Polypropylene) Nonwoven
Inner Layer:	Super Soft Spunbond Polypropylene Non-Woven
Nose Piece:	Iron Wire with Polyethylene Plastic Coating
Ear Loop:	Latex-Free Synthetic Elastic

## Storage and Transportation

Yulwon R Series have a shelf life of 3-5 years from date of manufacture (depending on your country regulations). End of shelf life is marked on the product packaging. Before initial use, always check that the product is within the stated shelf life (use by date).

Product should be stored in a clean dry environment at temperatures that do not exceed 30 C and a relative humidity of less than 80%. Sealing on all packaging should not be opened until use.

## Warnings and Use Limitations

- Always be sure that the complete product is:
  - Suitable for the application;
  - Fitted correctly;
  - Worn during all periods of exposure;
  - Replaced when necessary.
- Mask must not be used in atmospheres containing less than 19.5% oxygen.
- Single use mask only. Discard mask after use.
- Do not distort or change the shape of the mask.
- Do not touch the surface of the mask while wearing it.
- If breathing is uncomfortable immediately stop wearing and consult a doctor.
- Do not use if packaging is broken.
- If skin rash occurs stop using immediately.
- Do not use with beards or other facial hair that may inhibit contact between the face and the product thus preventing a good seal.
- Before initial use, always check that the product is within the stated shelf life.
- These product do not protect against gases/vapours such as glutaraldehyde.

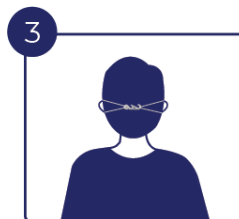
## Fitting instructions



With clean hands open the top and bottom flaps of the mask.



Place earloops over ears and mask over face.



Attach hook to each ear loop for tighter alternative fit.



Bend nose bar over nose and ensure bottom and top panels are securely fit.

## Fit Check

1. Cover the front of the respirator with both hands being careful not to disturb the fit of the respirator.
2. EXHALE sharply
3. If air leaks around the nose, re-adjust the nose clip to eliminate leakage. Repeat the above seal check.
4. If air leaks at the respirator edges, adjust the earloops or use the fitting hook for a tighter fit.

If you CANNOT achieve a proper fit DO NOT enter the hazardous area.

## Disposal

Used and/or contaminated products should be disposed of carefully ensuring not to touch the front surface of the mask. Holding the two earloops remove the mask and immediately dispose in a sealed rubbish bin or contaminated waste bin as per national regulations.

## Marking



Single Use Only, Not Reusable



Do Not Use if Packaging is Broken



Product is Not Sterile



Do Not Dispose Product in Lavatory



Temperature Range



Do Not Get Wet



Keep Out of Direct Sunlight

Approvals The Certificate and Declaration of Conformity available at the following website:

Made in South Korea, in an ISO 9001:2008 certified plant.

Important notice Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific Yulwon product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the Yulwon product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Yulwon Co. Ltd. (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for Yulwon products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.