

Personal Protective Equipment

P2/FFP2 NR Fold Flat Respirator



Standards complied	EN149:2001+A1:2009 FFP2
Construction & Material	Inner facing – Polypropylene Spunbonded Fabric Pre-filter layer - Polyester Filter Fabric Filter media – Meltblown polypropylene Outer facing – Polypropylene Spunbonded Fabric Adjustable Nose Clip - Steel + PP Soft Foam Nosepiece - Black or Grey PU Foam Elastic Head Band - Synthetic Rubber or Lycra Strap Mask Marking/Label – HY8220 FFP2 NR, EN149:2001+A1:2009 and CE 0086
Packing	20pcs/box, 20boxes/carton (400pcs total per carton)
Shelf Life	5 years

Sum of Test Result: continued next pages

Table A. Maximum sodium chloride penetration

	Sample 1	Sample 2	Sample 3
Pre-test condition	Mechanical strength and Temperature Conditioning		
Flow through filter	95 l/min		
Elapsed Time in Minutes	Actual Penetration % (Maximum permitted penetration 6.0%)		
5	0.0635 (1)	0.0568 (1)	0.0835 (1)
10	0.0589	0.0531	0.0793
15	0.0517	0.0505	0.0738
20	0.0467	0.0497	0.0709
25	0.0410	0.0416	0.0651
30	0.0308	0.0397	0.0588
Assessment:	Pass	Pass	Pass

Table B. Maximum paraffin oil penetration

	Sample 1	Sample 2	Sample 3
Pre-test condition	Mechanical strength and Temperature Conditioning		
Challenge concentration (mg/m ³)	20	20	20
Flow through filter	95 l/min		
Elapsed Time in Minutes	Actual Penetration % (Maximum permitted penetration 6.0%)		
3	0.30	0.26	0.34
5	0.31	0.27	0.34
10	0.34	0.28	0.36
15	0.33	0.30	0.38
20	0.35	0.31	0.39
25	0.37	0.32	0.40
30	0.39	0.33	0.41
35	0.42	0.34	0.44
40	0.44	0.35	0.48
45	0.46	0.36	0.50
50	0.49	0.37	0.57
55	0.50	0.39	0.60
60	0.57	0.43	0.63
65	0.60 (1)	0.44 (1)	0.63 (1)
Assessment:	Pass	Pass	Pass

REF	Size	Color	Package
HY8220	115 x 160mm	White	20pcs/box, 400pcs/carton

FFP3 NR Fold Flat Respirator



Standards complied	EN149:2001+A1:2009 FFP3
Construction & Material	Inner facing – Polypropylene Spunbonded Fabric Filter media – Meltblown polypropylene Outer facing – Polypropylene Spunbonded Fabric Adjustable Nose Clip - Steel + PP Soft Foam Nosepiece - White PU Foam Elastic Head Band - Lycra Strap
Packing	20pcs/box, 20boxes/carton (400pcs total per carton)
Shelf Life	5 years

Pass - See Table A and Appendix A for Test Panel Data

Table A: Total Inward Leakage Results

Test Panel Member	Pre-test condition	Sample No	A	B	C	D	E	Average (%)
			Walking (%)	Walking with head side to side (%)	Walking with head up & down (%)	Walking and talking (%)	Walking (%)	
MT2	AR	1	0.6708	0.8005	2.3157	0.4433	0.5787	0.9618
DT1	AR	2	5.3937	12.8622	2.9587	0.1870	1.5464	4.5896
FM1	AR	3	0.3459	0.2889	0.2120	0.1090	0.0637	0.2039
MM1	AR	4	0.5057	0.8241	0.5320	0.1333	0.3811	0.4752
MY1	AR	5	0.2781	0.6140	4.4434	0.4967	2.9154	1.7495
MM2	TC	6	0.4772	2.5409	1.1903	0.3408	0.5894	1.0277
NM1	TC	7	0.3222	0.6442	3.0402	0.0937	0.4356	0.9072
OR1	TC	8	1.9498	2.3595	1.6610	0.7178	1.2719	1.5920
PN1	TC	9	0.3366	0.4328	1.9126	0.0548	0.1357	0.5745
RP1	TC	10	2.9883	5.0377	9.4587	0.0478	0.0587	3.5182

Pass – See Table B

Table B: Carbon dioxide content of the inhalation air

Sample No	Pre-test condition	Maximum Specified CO ₂ (%)	Actual CO ₂ (%)
11	AR	1.0	0.69
12	AR	1.0	0.69
13	AR	1.0	0.79

Pass – See Tables C and D

Table C: Inhalation resistance - post clogging

Sample No	Pre-test condition	Continuous flow through filter (l/min)	Maximum specified inhalation resistance (mbar)	Actual inhalation resistance (mbar)	Result
14	AR	95	5	1.48	Pass
15	TC	95	5	1.38	Pass
16	TC	95	5	1.50	Pass

Table D: Exhalation resistance - post clogging measured in five orientations - worst case recorded

Sample No	Pre-test condition	Continuous flow through filter (l/min)	Maximum specified exhalation resistance (mbar)	Actual exhalation resistance (mbar)	Result
14	AR	95	5	1.41	Pass
15	TC	95	5	1.33	Pass
16	TC	95	5	1.45	Pass

Pass – See Tables E and F

Table E: Sodium chloride penetration - post clogging

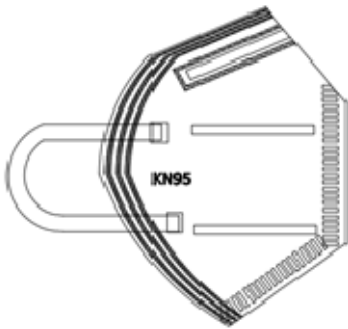
Sample No	Pre-test condition	Flowrate through filter (l/min)	Max spec. penetration (%)	Actual penetration (%)	Result
14	AR	95	1	0.288993	Pass
15	TC	95	1	0.110716	Pass
16	TC	95	1	0.752972	Pass

Table F: Paraffin oil penetration - post clogging

Sample No	Pre-test condition	Flowrate through filter (l/min)	Max spec. penetration (%)	Actual penetration (%)	Result
14	AR	95	1	0.500	Pass
15	TC	95	1	0.195	Pass
16	TC	95	1	0.900	Pass

REF	Size	Color	Package
HY9330	210 x 90 mm	White	20boxes/400pcs/carton

KN95 Particulate Respirator



Standards complied	EN149:2001+A1:2009 FFP2
Construction & Material	Material : 5 layers 1st PLY PP Non-woven 50gsm 2nd PLY Hot air cotton 50gsm 3rd PLY Melted blown 25gsm 4th PLY Melted blown 25gsm 5th PLY PP Non-woven 25gsm PFE: $\geq 95\%$ Inhalation Resistance < 350 Pa Expiratory Resistance < 250Pa Conducted standard :GB2626-2006
Packing	10pcs/box, 90boxes/carton (900pcs total per carton)
Shelf Life	2 years

REF	Size	Color	Package
M2004	115 x 160mm	White	10boxes/900/carton

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