

Test Report



Report No 255/7454734/3 of 5 This Report consists of 6 pages

Licence/Certificate No CE 70730

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Authority & date BSI: Service Management Order No 7454734
dated 30 October 2009
Equipment Record No 10110462

Items tested HY8620 FFP2 Conical Disposable Mask – (Non valve)
Ten (10) samples submitted

Specification Article 11A Audit test to BS EN 149:2001 + A1: 2009 Respiratory protective
devices – Filtering half masks to protect against particles– Incorporating
Corrigendum July 2002. See Assessment Summary

Results See Assessment Summary

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Issue Date 26 November 2009

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BSI
BS EN 149:2001 + A1: 2009

SPECIFICATION: Article 11A Audit testing to BS EN 149:2001 Respiratory protective devices - Filtering half masks to protect against particles
Incorporating Corrigendum No 1 (See Assessment Summary for details)

CLIENT/MANUFACTURER: Handan Hengyong Protective & Clean Products Co Ltd

MODEL: HY8620 FFP2 Conical Disposable Mask – (Non valve)

BUILD STANDARD: As per Certified Product

NUMBER OF SAMPLES: Ten (10) samples submitted

ER NO: 10110462

DATE RECEIVED: 29 October 2009

DATE STARTED: 12 November 2009

FILTER CLASSIFICATION: FFP2

INTRODUCTION

The samples detailed above were submitted by the Client for an Article 11A audit assessment.

The samples were assessed against Clause 7.9.2 'Penetration of filter material' with respect to the Exposure Test only at the request of BSI Product Certification.

This Report describes the Article 11A Audit assessment for Model HY8620. Reports 255/7454734/1 of 5, 255/7454734/2 of 5, 255/7454734/4 of 5 and 255/7454734/5 of 5 describe the assessments of Models HY8610, HY8210, HY8920 and HY8220 respectively.

This Report should be read in conjunction with the Specification referenced above.

ASSESSMENT SUMMARY

An Assessment Summary is presented on page 3.

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ASSESSMENT SUMMARY

CLAUSE NO AND TITLE	ASSESSMENT	LOCATION
7 REQUIREMENTS		
7.1 General	-	Page 4
7.2 Nominal values and tolerances	-	Page 4
7.3 Visual inspection	N/As (1)	-
7.4 Packaging	N/As (1)	-
7.5 Material	N/As (1)	-
7.6 Cleaning and disinfecting	N/As (1)	-
7.7 Practical performance	N/As (1)	-
7.8 Finish of parts	N/As (1)	-
7.9 Leakage	-	-
7.9.1 Total inward leakage	N/As (1)	-
7.9.2 Penetration of filter material	Pass (2)	Pages 4-6
7.10 Compatibility with skin	N/As (1)	-
7.11 Flammability	N/As (1)	-
7.12 Carbon dioxide content of inhalation air	N/As (1)	-
7.13 Head harness	N/As (1)	-
7.14 Field of vision	N/As (1)	-
7.15 Exhalation valve(s)	N/As (1)	-
7.16 Breathing resistance	N/As (1)	-
7.17 Clogging	N/As (1)	-
7.18 Demountable parts	N/As (1)	-
9 Marking	N/As (1)	-
10 Information to be supplied by the manufacturer	N/As (1)	-

N/As: Not Assessed

- (1) Not required by BSI Product Certification.
- (2) The samples were assessed against Clause 7.9.2 'Penetration of filter material' with respect to the Exposure Test only at the request of BSI Product Certification.

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EXAMINATION AND TEST (CONTINUED)

Model Type:- HY8620 FFP2 Conical Disposable Mask – (Non valve)

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	0.0861 (1)	0.0437 (1)	0.0552 (1)
10	0.0747	0.0415	0.0520
15	0.0710	0.0402	0.0498
20	0.0667	0.0384	0.0477
25	0.0624	0.0360	0.0468
30	0.0589	0.0342	0.0445
Assessment:	Pass	Pass	Pass

After the Actual Penetration readings shown with suffix (1), the reading at 5 subsequent sampling intervals showed a decline and the testing was terminated without the 120mg exposure limit being reached, as permitted by BS EN 13274-7: 2008.

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EXAMINATION AND TEST (CONTINUED)

Model Type:- HY8620 FFP2 Conical Disposable Mask – (Non valve)

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	0.36	0.38	0.32
5	0.37	0.39	0.32
10	0.39	0.42	0.33
15	0.41	0.43	0.35
20	0.42	0.45	0.36
25	0.44	0.48	0.37
30	0.46	0.49	0.38
35	0.50	0.54	0.42
40	0.51	0.57	0.43
45	0.54	0.63	0.44
50	0.57	0.63	0.45
55	0.60	0.69	0.48
60	0.63	0.69	0.49
65	0.63 (1)	0.75 (1)	0.50 (1)
Assessment:	Pass	Pass	Pass

(1) A loading of 120 mg was achieved after a period of 63 minutes, 10 seconds.