Test Report





Report No

255/7454734/3 of 5

This Report consists of 6 pages

Licence/Certificate No

CE 70730

Client

Handan Hengyong Protective & Clean Products Co Ltd

1-1-1201,

455 Gongnong Road,

Shijiazhuang,

Hebei

CN

050051

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

Conditions of issue

This Test Report is issued subject to the conditions stated in current issue of CP0322 'Conditions of Contract for Testing'. The results contained herein apply only to the particular sample/s tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of the Managing Director, BSI Testing Services, who reserves the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

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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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BS EN 149:2001 + A1: 2009

ASSESSMENT SUMMARY

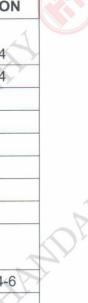
CLAUSE	NO AND TITLE	ASSESSMENT	LOCATION
7 7.1	REQUIREMENTS General		Page 4
7.2	Nominal values and tolerances	-	Page 4
7.3	Visual inspection	N/As (1)	D-3
7.4	Packaging	N/As (1)) -
7.5	Material	N/As (1)	-
7.6	Cleaning and disinfecting	N/As (1)	-
7.7	Practical performance	N/As (1)	-
7.8	Finish of parts	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)	- 7,7
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)	- 0
9	Marking	N/As (1)	
10	Information to be supplied by the manufacturer	N/As (1)	
411			

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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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BS EN 149:2001 + A1: 2009

EXAMINATION AND TEST

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

	CLAUSE	REQUIREMENT	ASSESSMENT
	7	REQUIREMENTS	
	7.1	General	4
		In all tests all samples shall meet the requirements.	
	7.2	Nominal values and tolerances	
	OP	Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for	
4	7h	temperature limits, values, which are not stated as maxima or	200
>	<i>></i>	minima, shall be subject to a tolerance of $\pm 5\%$. Unless otherwise specified, the ambient temperature for testing shall be $(16 - 32)$	-
1		$^{\circ}$ C, and the temperature limits shall be subject to an accuracy of \pm 1 $^{\circ}$ C.	
	7.9	Leakage	. 5
	7.9.2	Penetration of filter material	
	4	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1 of the standard. A total of 9 samples of particle filtering half masks shall be tested for each aerosol. Testing in accordance with clause 8.11 of the standard using the Penetration test according to EN 13274-7, shall be performed on:	*
		- 3 samples as received,	N/As (1)
		 3 samples after the simulated wearing treatment described in clause 8.3.1 of the standard. 	
		Testing in accordance with Clause 8.11 of the standard using the exposure test with a specified mass of test aerosol of 120 mg, and for particle filtering devices claimed to be re-usable additionally the Storage test, according to EN 13274-7, shall be performed:	
		- for non-re-usable devices on:	1_
		 3 samples after the test for mechanical strength in accordance with clause 8.3.3 of the standard followed by temperature conditioning in accordance with clause 8.3.2 of the standard. 	Pass See Tables A & B
1			

(1) 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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BS EN 149:2001 + A1: 2009

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	
Mechanical strength and Temperature Conditioning			
⊗	95 l/min		
Actual Penetration %			
(Maximum permitted penetration 6.0%)			
0.0861 (1)	0.0437 (1)	0.0552 (1)	
0.0747	0.0415	0.0520	
0.0710	0.0402	0.0498	
0.0667	0.0384	0.0477	
0.0624	0.0360	0.0468	
0.0589	0.0342	0.0445	
Pass	Pass	Pass	
	Mechanical streng Ac (Maximum 0.0861 (1) 0.0747 0.0710 0.0667 0.0624 0.0589	Mechanical strength and Temperature 95 l/min Actual Penetration % (Maximum permitted penetration 0.0861 (1) 0.0437 (1) 0.0747	

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 Mechanical str	Sample 2 rength and Tempera 20 95 l/min	Sample 3 sture Conditioning
AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN C	20	- V
20		20
	95 I/min	
	00 //111111	
Actual Penetration % (Maximum permitted penetration 6.0%)		
0.36	0.38	0.32
0.37	0.39	0.32
0.39	0.42	0.33
0.41	0.43	0.35
0.42	0.45	0.36
0.44	0.48	0.37
0.46	0.49	0.38
0.50	0.54	0.42
0.51	0.57	0.43
0.54	0.63	0.44
. 0.57	0.63	0.45
0.60	0.69	0.48
0.63	0.69	0.49
0.63 (1)	0.75 (1)	0.50 (1)
7	A	
Pass	Pass	Pass
	0.36 0.37 0.39 0.41 0.42 0.44 0.46 0.50 0.51 0.54 0.57 0.60 0.63 0.63 (1)	0.36 0.38 0.37 0.39 0.39 0.42 0.41 0.43 0.42 0.45 0.44 0.48 0.46 0.49 0.50 0.54 0.51 0.57 0.54 0.63 0.60 0.69 0.63 0.69 0.63 (1) 0.75 (1)

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

