

Test Report

EN 149 : 2001 + A1 : 2009

Report no: 1.11.05.60

Client: INSPEC Representative Office
Room 515 Huawen Plaza
No. 999, West Zhongshan Road
Changning District
Shanghai 200051
China

Client order: TA11/0078

Order(s) received: 26 April 2011

Manufacturer: Wuhan Huashida Protective Products Co., Ltd.

Model(s): HSD-F02

Date(s) of tests: 9 to 17 May 2011

Conditions:


This report shall not be reproduced except in full, without the written approval of INSPEC International Limited.

Opinions, comments and interpretations expressed herein are outside the scope of UKAS accreditation and shown in italics in this report. Any INSPEC interpretations are referenced in this report and copies are available upon request.

Tests marked are not included in the UKAS accreditation schedule for INSPEC.

Samples will be disposed of four weeks from the date of this report.

Signed:


Martin Formstone, Senior Technician

Issued: 25 May 2011

Product characteristics

Property	Characteristic
Model	HSD-F02
Classification	FFP2
Exhalation valve(s)	None
Use designation	NR

Sample details

Product	Quantity	Received	INSPEC no. (1X0333 +)
HSD-F02 Filtering half mask	30	24 March 2011	29 to 31

Procedures

Testing was performed in accordance with BS EN 149 : 2001 incorporating Corrigendum No. 1 (January 2003), and Amendment A1 (2009) unless otherwise specified below.

Unless stated otherwise, samples were tested in the condition as received at INSPEC.

The Client requested testing to clause 7.9.2, Penetration of filter material, Paraffin oil only, no other clauses were assessed.

7.9.2 Filter penetration testing by the paraffin oil method was carried out using a modified Phoenix SG-20 aerosol generator and a Phoenix model JM-6000 photometer or a TEC Services' model PH-3 photometer. These give similar performance to the instruments specified.

For the 120mg exposure test, the peak penetration during exposure is reported and in addition the penetration after three minutes for comparison purposes.

Result detail**7.9.2 Penetration of filter material****Paraffin oil:**

Sample	Condition	Penetration (%)		
		After 3 mins	Max during exposure	
14	A.R.	Not requested		NAs
15				NAs
16				NAs
23	S.W.	Not requested		NAs
24				NAs
25				NAs
29	M.S. + T.C.	8.6	11.9	Fail
30		9.7	15.4	Fail
31		8.6	15.1	Fail
Maximum permitted		6.0		

ANNEX

This Annex comprises one section.

1. Estimates of the uncertainty of measurement. (1 page)

EN 149 : 2001 + (A1 : 2009)**Estimates of the uncertainty of measurement**

Clause	Test	Uncertainty
7.9.1	Total inward leakage	± 4.7%
7.9.2	Penetration of filter material - Sodium chloride	± 4.7%
7.9.2	Penetration of filter material - Paraffin oil	± 5.0%
7.12	CO ₂ content of the inhalation air	± 4.0%
7.16	Breathing resistance	± 1.8%
7.17.2	Breathing resistance after clogging	± 3.5%
7.17.3	Filter penetration after clogging - Sodium chloride	± 4.7%
7.17.3	Filter penetration after clogging - Paraffin oil	± 5.0%

Values expressed as a percentage (%) are relative.

It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria