

BRITISH STANDARD

Respiratory protective devices for use against chemical, biological, radiological and nuclear (CBRN) agents –

Part 4: Powered air purifying respirators – Specification

ICS 13.340.30

This is a preview of "BS 8468-4:2008". [Click here to purchase the full version from the ANSI store.](#)

The BSI copyright notice displayed in this document indicates when the document was last issued.

© BSI 2008

ISBN 978 0 580 56883 1

The following BSI references relate to the work on this standard:

Committee reference PH/4

Draft for comment 07/301492276 DC

Publication history

First published August 2008

Amendments issued since publication

Amd. no.	Date	Text affected
-----------------	-------------	----------------------

This is a preview of "BS 8468-4:2008". [Click here to purchase the full version from the ANSI store.](#)

Foreword *ii*

1	Scope	<i>1</i>
2	Normative references	<i>1</i>
3	Terms and definitions	<i>1</i>
4	Description	<i>2</i>
5	Designation	<i>2</i>
6	Requirements	<i>4</i>
7	Marking	<i>7</i>
8	Information supplied by the manufacturer	<i>8</i>

Annexes

Annex A (normative) Testing	<i>9</i>
Annex B (normative) Test method for chemical agent permeation and penetration resistance against distilled sulfur mustard (HD) and sarin (GB)	<i>9</i>
Annex C (normative) Use of optical systems external to the full facemask	<i>21</i>
Annex D (normative) Relationship between this British Standard and the Basic Safety Requirements of EU Directive 89/686/EEC Personal Protective Equipment	<i>21</i>
Bibliography	<i>23</i>

List of figures

Figure 1 – Pictograms	<i>8</i>
Figure B.1 – Schematic diagram of HD droplet placement on PAPR (face-mounted blower/filter(s) unit)	<i>13</i>
Figure B.2 – Schematic diagram of HD droplet placement on PAPR with drink tube (face-mounted blower/filter(s) unit)	<i>14</i>
Figure B.3 – Schematic diagram of HD droplet placement on PAPR with communicator (face-mounted blower/filter(s) unit)	<i>15</i>
Figure B.4 – Schematic diagram of HD droplet placement on PAPR (belt-mounted blower/filter(s) unit) facepiece with side hose connection	<i>16</i>
Figure B.5 – Schematic diagram of HD droplet placement on PAPR [belt-mounted blower/filter(s) unit] facepiece with central hose connection	<i>17</i>
Figure B.6 – Schematic diagram of HD droplet placement on PAPR hood (including inner mask) and belt-mounted blower/filter(s) unit	<i>18</i>
Figure B.7 – Schematic diagram of HD droplet placement on PAPR hood (without an inner face mask) and belt-mounted blower/filter(s) unit	<i>19</i>

List of tables

Table 1 – Maximum acceptable levels of permeation and penetration	<i>5</i>
Table 2 – Breakthrough times	<i>6</i>
Table 3 – Filter test challenge and test breakthrough concentrations	<i>6</i>
Table B.1 – Airflow characteristics for chemical agent permeation and penetration resistance test method (HD vapour)	<i>12</i>
Table B.2 – Airflow characteristics for chemical agent permeation and penetration resistance test method (GB vapour)	<i>20</i>
Table D.1 – Basic Safety requirements for PPE – Comparison between the PPE Directive, Annex II and BS 8468-4	<i>21</i>

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 23 and a back cover.