

DATA SHEET

Domestic Preparedness filter ABEK3HE-DP-T[H] (large) ABEKHE-DP-T[H] (small)



Updated: 09 Jun 2005

Description:	Domestic Preparedness (NBC) filter, available in two weights																																																																		
Product name:	DP Filter																																																																		
Use:	<p>Used against particles, dust, smoke, fume, bacteria, viruses, biological warfare agents, and a wide range of organic, inorganic and acid gases and ammonia.</p> <p>Examples: Sarin, nerve gas, mustard gas, cyanogen, phosgene, radioactive dust, toxic particles, aerosols, tear gas, bacteria, viruses, anthrax, smallpox etc. — Also provides protection against industrial gases such as ammonia, hydrogen cyanide, acid gases, chlorine, sulfur dioxide, hydrogen chloride and many more.</p>																																																																		
Material:	Reinforced polyamide. No metal parts.																																																																		
Weight:	Large filter: 370g (12.95 oz) Small filter: 320g (11.2 oz)																																																																		
Thread:	NATO/EN 148-1.40mm																																																																		
Filtration paper :	Particle filter contains about 160 sq inches (1,096 sq cm) non-woven hydrophobic fibreglass paper																																																																		
Capacity:	<p>Industrial compounds:</p> <table border="1"> <thead> <tr> <th>Compound</th> <th>Conc. (ppm)</th> <th>Flow rate (l/min)</th> <th>Filter capacity (min)</th> </tr> </thead> <tbody> <tr> <td>Cyclohexane C₆H₁₂</td> <td>5000</td> <td>30</td> <td>50</td> </tr> <tr> <td>Chlorine C₁₂</td> <td>5000</td> <td>30</td> <td>40</td> </tr> <tr> <td>Hydrogen sulfide H₂S</td> <td>5000</td> <td>30</td> <td>>120</td> </tr> <tr> <td>Sulfur dioxide SO₂</td> <td>5000</td> <td>30</td> <td>23</td> </tr> <tr> <td>Ammonia NH₃</td> <td>5000</td> <td>30</td> <td>50</td> </tr> <tr> <td>Carbon tetrachloride CCl₄</td> <td>1000</td> <td>64</td> <td>>65</td> </tr> <tr> <td>Methylomine CH₃NH₂</td> <td>1000</td> <td>64</td> <td>>80</td> </tr> <tr> <td>Hydrogen chloride HCl</td> <td>500</td> <td>64</td> <td>>35</td> </tr> <tr> <td>ClO₂</td> <td>500</td> <td>64</td> <td>>60</td> </tr> <tr> <td>Hydrogen fluoride HF</td> <td>70</td> <td>64</td> <td>>60</td> </tr> <tr> <td>Formaldehyde</td> <td>100</td> <td>64</td> <td>>100</td> </tr> <tr> <td>O-chlorobenzylidene malonotrile CS</td> <td>3</td> <td>64</td> <td>>480</td> </tr> <tr> <td>CN teargas</td> <td>16</td> <td>64</td> <td>>480</td> </tr> <tr> <td>DOP</td> <td>200mg</td> <td>85</td> <td>40mm H₂O (penetr.0.004%)</td> </tr> <tr> <td>NaCl</td> <td></td> <td>95</td> <td>0.001%</td> </tr> </tbody> </table>			Compound	Conc. (ppm)	Flow rate (l/min)	Filter capacity (min)	Cyclohexane C ₆ H ₁₂	5000	30	50	Chlorine C ₁₂	5000	30	40	Hydrogen sulfide H ₂ S	5000	30	>120	Sulfur dioxide SO ₂	5000	30	23	Ammonia NH ₃	5000	30	50	Carbon tetrachloride CCl ₄	1000	64	>65	Methylomine CH ₃ NH ₂	1000	64	>80	Hydrogen chloride HCl	500	64	>35	ClO ₂	500	64	>60	Hydrogen fluoride HF	70	64	>60	Formaldehyde	100	64	>100	O-chlorobenzylidene malonotrile CS	3	64	>480	CN teargas	16	64	>480	DOP	200mg	85	40mm H ₂ O (penetr.0.004%)	NaCl		95	0.001%
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Warfare compounds* :

Compound	Conc. (ppm)	Flow rate (l/min)	Filter capacity (min)
Sarin GB (<i>Tested by SBCCOM</i>)			
<u>Nerve agent</u> Lethal dose: 35 mg/m ³ Effectice dose: 25 mg/m ³ Hydrogen cyanide HCN	300 mg/m ³	25	>60
<u>Blood agent</u> Lethal dose: varies widely with concentration	5000	30	72
Cyanogen chloride CK (<i>Tested by SBCCOM</i>)			
<u>Blood agent</u> Lethal dose: 11,000 mg/m ³ Effective dose: 7,000 mg/m ³ O-chlorobenzylidene malonotrile CS	4000 mg/m ³	50	>45
<u>Tear gas</u> Lethal dose: 61,000 mg/m ³ Effective dose: 10-20 mg/m ³ Chloroacetophenone CN	3	64	>480
<u>Tear gas:</u> Lethal dose: 7,000-14,000 mg/m ³ Effective dose: 80 mg/m ³	16	64	>480

NOTE: Blue area signifies European test data using large filters. Remaining tests conducted in USA on small filters.

**) Warfare gas test results are not derived from, nor have any relation to NIOSH testing*

Breathing resistance :

At 30 l/min: <1.2 mbar
At 95 l/min: <4.0 mbar

Storage period :

10 years if vacuum-packed* aluminium seal is unbroken.

NOTE: The packaging is completely sealed but not hard vacuum packed: it contains a small amount of air and moisture to keep the absorption material in peak condition.

Storage:

Store at room temperature in clean, dry place