

# Technical Data Sheet

## Dräger X-plore® Bayonet Respiratory Filter

### A2B2E2K2 Hg P3 R D



#### 1.0 General Data

1.1	Manufacturer	Dräger Safety AG & Co. KGaA Revalstraße 1, D – 23 560 Luebeck, Germany
1.2	Designation	Bayonet A2B2E2K2 Hg P3 R D
1.3	Dräger part no.	6738819
	EAN Code	Pair: 4026056004799 Box: 4026056004805
1.4	Intended use	Respiratory protection against gases, vapours and particles in conjunction with a specified face piece. Scope of protection as indicated by product documentation, technical standards and installed application rules.
1.5	Relevant standards	DIN EN 14387:2008
1.6	Certification	EU type approval test certificate, granted by accredited and notified test institute IFA, Alte Heerstr. 111, 53757 St. Augustin, Germany

#### 2.0 Design & Construction

2.1	Connection to facepiece	Dräger-specific bayonet connection
2.2	Materials	Filter housing: ABS-plastic Sorbents: activated carbon Particle filter: micro-glass fibres Labels: paper
2.3	Design	The filter housing is tear drop shaped. At the inhalation side the filter housing has integrated air inlets. There is one filter bed with activated carbon. It is fixed by the housing parts and fleece materials. The particle filter is made of pleated paper. A particle tight connection between the particle filter and the particle filter housing is performed by glue. The gas filter part and the particle filter are connected leaktightly by ultrasonic welding.
2.4	Working principle	Gases and vapours are removed from the ambient air by adsorption onto the sorbent (carbon), particles are filtered by the fibre filter.
2.5	Shelf life	6 years (4+2)
2.6	Dimensions	Outer diameter: 106 x 84 mm (L x B) Height (incl. bayonet connection): 75 mm Volume activated carbon: 200 ml Volume of the filter: 254 ml
2.7	Weight	Excl. package: approx. 225 g

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<b>3.0 Performance Data</b>	(minimum data in accordance with standard)		
3.1 Particle filtration efficiency	Test aerosols:	sodium chloride, paraffin oil	
	Minimum efficiency (EN 143):	99.95% NaCl, 99.95% paraffin oil	
3.2 Gas filtration capacity	Test conditions (EN 14387):	30 L/min flow rate, 70% rel. humidity	

Type	Test gas	Class	Test Gas Concentration	Breakthrough Concentration	Minimum Duration Time
A	Cyclohexane (C <sub>6</sub> H <sub>12</sub> )	2	5,000 ppm / 17.5 mg/l	10 ml/m <sup>3</sup>	35 min
B	Chlorine (Cl <sub>2</sub> )	2	5,000 ppm / 15.0 mg/l	0.5 ml/m <sup>3</sup>	20 min
	Hydrogen Sulphide (H <sub>2</sub> S)	2	5,000 ppm / 7.1 mg/l	10 ml/m <sup>3</sup>	40 min
	Hydrogen Cyanide (HCN)	2	5,000 ppm / 5.6 mg/l	10 ml/m <sup>3</sup>	25 min
E	Sulphur Dioxide (SO <sub>2</sub> )	2	5,000 ppm / 13.3 mg/l	5 ml/m <sup>3</sup>	20 min
K	Ammonia (NH <sub>3</sub> )	2	5,000 ppm / 3.5 mg/l	25 ml/m <sup>3</sup>	40 min
Hg	Mercury Vapour (Hg)	one class only	13.1 mg/m <sup>3</sup> / 1.6 ml/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	100 h only max. 50 h use allowed (EN)

Note: 5,000 ppm = 5,000 ml/m<sup>3</sup> = 0.5 Vol.-%

3.3 Breathing resistance	at ½ x 30 litres/min, constant flow max. 2.6 mbar (as per EN 14387) at ½ x 95 litres/min, constant flow max. 9.8 mbar (as per EN 14387)
3.4 Mechanical resistance	Resistant to shock and vibration as required by EN 14387
3.5 Chemical resistance	For normal use conditions the filter is resistant against temperature, humidity and corrosives. The filter is internally resistant against the filtering agents (sorbents). Ingress of water or other liquids must be avoided.

<b>4.0 Documentation</b>	
4.1 Markings	<p><u>Filter banderole:</u> marking shows colour coding in accordance with EN 14387, applicable standard, designation, filter type and name of manufacturer</p> <p><u>Filter label:</u> marking shows applicable standard, filter type, batch number, expiry date (sand clock symbol), order code, indication on the instruction for use and approval marking: <b>CE 0158</b></p>
4.2 Instructions for use	25 languages per box - English, German, French, Spanish, Italian, Dutch, Portuguese, Norwegian, Swedish, Danish, Finnish, Latvian, Lithuanian, Estonian, Polish, Czech, Slovak, Slovenian, Hungarian, Bulgarian, Romanian, Greek, Turkish, Russian, Chinese.

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### 5.0 Packing & Packaging

5.1	Package	<p>The filters are packed in pairs in a sealed aluminium foil bag. The EAN code is printed on each bag. 5 pairs are packed in a cardboard box accompanied by one instruction for use. The box is robust for normal transportation and storage, closed with factory label indicating partnumber, designation, filter type, quantity, batch number, expiry date, applicable standard and the EAN code for the packing unit.</p>
5.2	Packing unit	5 pairs

### 6.0 User Notes

6.1	System usability	<p>Suitable for use with all Dräger X-plore® full face masks with Dräger bayonet connection: Dräger X-plore® 5500</p>
6.2	Limitations	<p>The filter conforms to the minimum requirements of the standard indicated by the class and type of the filter it is marked with. It must be noted that laboratory values can differ from those measured in practice. This may result in longer or shorter break through times. The user must read and understand the instructions for use. Additionally the knowledge of all relevant application rules is mandatory (see in particular the limitations in use). Further information on request.</p>

**Dräger Safety AG & Co. KGaA**