

Technical Data Sheet

Dräger X-plore® Rd40 Respiratory Filter

1140 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	1140 A2B2E2K2 Hg P3 R D
1.3	Dräger part no. EAN Code	67 38 797 4026056004645
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	Standard thread connection Rd40 (Rd 40mm x 1/7") as per EN 148 part 1
2.2	Materials	Filter housing: aluminium, coated inside Sorbents: activated carbon Particle filter: micro-glass fibres, cellulose-fibres, additives Plugs: plastics Label and seals: paper
2.3	Design	The filter housing has a round shape and consists of the filter pot and the filter cover. Filter pot includes the Rd40 thread, filter cover has a round opening to the inhalation side. There is one filter bed consisting of carbon. It is fixed by the housing and internal sieves. The particle filter is positioned in front of the gas filtration part. It is made of one part and has round folds. A particle tight connection between the particle filter and the housing is performed by butyl glue. Both openings are leaktight closed by plastic plugs and therefore protected against ingress of water vapour.
2.4	Working principle	Gases and vapours are removed from the ambient air by adsorption onto the sorbent (activated carbon), particles are filtered by the fibre filter.
2.5	Shelf life	max. 6 years (4+2)
2.6	Dimensions	Outer diameter: 108.5 mm Height (incl. thread and plugs): 95 mm Volume activated carbon: 360 mL
2.7	Weight	Incl. plugs, excl. package: approx. 340 g

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

Type	Test gas	Class	Concentration	Breakthrough	Min.duration
A	Cyclohexane (C ₆ H ₁₂)	2	5,000 ppm	10 ppm	35 min
B	Chlorine (Cl ₂)	2	5,000 ppm	0.5 ppm	20 min
	Hydrogen Sulphide (H ₂ S)	2	5,000 ppm	10 ppm	40 min
	Hydrogen Cyanide (HCN)	2	5,000 ppm	10 ppm	25 min
E	Sulphur Dioxide (SO ₂)	2	5,000 ppm	5 ppm	20 min
K	Ammonia (NH ₃)	2	5,000 ppm	25 ppm	40 min
Hg	Mercury Vapour (Hg)	one class only	13,1 mg/m ³	0.1 mg/m ³	100 h

3.3 Breathing resistance	at 30 liters/min, constant flow	max. 2.6 mbar
	at 95 liters/min, constant flow	max. 9.8 mbar
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.	

4.0 Documentation	
4.1 Markings	Label: marking includes colour coding in accordance with EN 14387, batch number, expiry date, approval number and indication on the instruction for use (sand clock symbol). Approval marking: CE 0158
4.2 Instructions for use	<p><u>Standard IFU with main languages:</u> English, French, German, Spanish, Portuguese, Italian, Norwegian, Swedish, Danish, Dutch, Greece, Turkish</p> <p><u>Additional IFU South-East Europe:</u> Bulgarian, Rumanian, Slovenian, Slovak, Czech, Hungarian</p> <p><u>Additional IFU North-East Europe:</u> Finnish, Estonian, Lithuanian, Latvian, Polish, Russian</p> <p><u>Additional IFU Asia:</u> Chinese</p>

5.0 Packing & Packaging	
5.1 Package	Carton, robust for normal transportation and storage, closed with factory label, indicating designation, type of filter, batch number, expiry date
5.2 Packaged units	1 filter per carton, incl. 1 standard IFU (additional IFU if required)

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6.0 User Notes

6.1 System usability

Suitable for use with

- all full face masks with standard thread Rd40 according to EN 148-1 (Rd 40 mm x 1/7"), e.g. Dräger X-plore® 6300 / 6500
- the powered air purifying respirator Dräger X-plore® 7500

6.2 Limitations

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.

Dräger Safety AG & Co. KGaA