

Technical Data Sheet

Dräger X-plore® Rd40 Respiratory Filter 1140 AX 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 AX P3 R D
1.3	Dräger part no. EAN Code	67 38 862 4026056005260
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 40 mm x 1/7") as per EN148 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 with carbon. It is fixed by the housing and internal sieves. The particle filter is positioned in front of the gas filtration parts. 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: 110 mm Height (incl. thread and plugs): 102 mm Volume activated carbon: 400 mL
2.7	Weight	Incl. plugs, excl. package: approx. 290 g

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

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Type	Test gas	Class	Concentration	Breakthrough	Min. duration
AX	Dimethylether (CH ₃ -O-CH ₃) Isobutane (C ₄ H ₁₀)	One class only	500 ppm 2,500 ppm	5 ppm 5 ppm	50 min 50 min

3.3	Breathing resistance	at 30 litres/min, constant flow at 95 litres/min, constant flow	max. 2.6 mbar 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, expire 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, expire 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:

- all half masks with standard thread Rd40 according to EN 148-1 (Rd40 mm x 1/7"), e.g. Dräger X-plore® 4740
- all full face masks with standard thread Rd40 according to EN 148-1 (Rd40 mm x 1/7"), e.g. Dräger X-plore® 6300 / 6500

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