Technical Data Sheet Filter A2B2E2K2-P3 R D/NBC Black



1.0	General Data	
1.1	Manufacturer	Dräger Safety AG & Co. KGaA Revalstraße 1, D - 23560 Luebeck, Germany
1.2	Designation	Filter 1140+ A2B2E2K2-P3 R D/NBC black shrink-wrapped
1.3	Dräger part no.	67 39 780
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	EN 14387:2008, TL 4240-0065 (August 2006)
1.6	Certification	EU type approval test certificate, granted by accredited and notified test institute DEKRA EXAM GmbH, Dinnendahlstraße 9, 44809 Bochum, Germany / Additional tested according to TL 4240-0065

2.0	Design & Construction			
2.1	Connection to facepiece	Standard thread co	nnection RA (Rd 40 x 1/7") a	as per EN 148 part 1
2.2	Materials	Filter housing: Lacquering: Sorbents: Particle filter: Plugs: Label and seals:	aluminium, coated inside black activated and impregnated micro-glass fibres, cellulos aluminium / polyethylene paper	
2.3	Design	filter cover. Filter po opening to the inha activated carbon. It particle filter is posi inhalation side. It is connection betwee butyl glue. The filte	as a round shape and consist of includes the RA thread, fill lation side. There is one filte is fixed by the housing and itioned in front of the gas filtr made of one part and has p n the particle filter and the ho rs are water-vapour-tight clo plastic cap on the intake.	er cover has a round r bed consisting of internal sieves. The ation part on the arallel folds. A leaktight busing is performed by
2.4	Working principle		s are removed from the ambi ted and impregnated carbon) e filter.	
2.5	Shelf life	12 years (10+2)		
2.6	Dimensions	Outer diameter: Height (incl. thread Volume activated c Volume of the filter	arbon:	110 mm 106 mm 370 mL 780 mL

3.0	Performance Data	(minimum data in accordance with	standard)
3.1	Particle filtration efficiency	Test aerosols: Minimum efficiency (EN 143:2000 re. TL4240-0017)	sodium chloride, paraffin oil 99,95% NaCl, 99,997% paraffin oil



3.2 Gas filtration capacity Test conditions (EN 14387:2008): 30 L/min, 70% rel. humidity, 20°C

Gas	Concentration	Breakthrough	Duration
Cl ₃ CNO ₂	5 g / m³	3,5 mg/m ³ od. 0,5 ppm	> 40 min
Hydrogen Cyanide (HCN)	2 g / m³	11 mg/m ³ od. 10 ppm	> 75 min
CICN	2 g / m ³	2,5 mg/m ³ od. 1 ppm	> 120 min

Gas	Concentration	Breakthrough	Duration
C6H12	5000 ppm	10ml/m ³	> 35 min
Cl2	5000 ppm	0,5 ml/m³	> 20 min
H2S	5000 ppm	10 ml/m ³	> 40 min
HCN	5000 ppm	10 ml/m ³	> 25 min
SO2	5000 ppm	5 ml/m³	> 20 min
NH3	5000 ppm	25 ml/m ³	> 40 min

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3.3	Breathing resistance	at 30 liters/min (normliters), constant flow	< 2,5 mbar
		at 95 liters/min (normliters), constant flow	< 8,2 mbar
3.4	Mechanical resistance	Resistant to shock and vibration as	required by EN 14387:2008
		Drop-test (1,2 m concrete) 5 times	vertical, 5 times horizontal
3.5	Chemical resistance	For normal use conditions the filter humidity and corrosives. The filter i filtering agents (sorbents). Ingress avoided.	s internally resistant against the

4.0	Documentation	
4.1	Markings	<u>Label:</u> marking includes colour coding in accordance with EN 14387:2008, batch number, expiry date and indication on the instruction for use (sand clock symbol). Approval marking: CE 0158
4.2	Instruction for use	Each filter is accompanied by an instruction for use in the following languages: English, French, German, Spanish, Portugese, Norwegian, Swedish, Danish, Italian, Dutch, Turkish, Polish, Slovakian, Slovenian, Czech, Hungarian, Romanian, Bulgarian.

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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 each
6.0	User notes and limitations	Dräger Safety AG & Co. KGaA guarantees the performance indicated by the class and type of the filter it is marked with. It must be noted that laboratory values differ from those that can be measured in practise. 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 vital (see in particular the limitations of use). Further information on request.

Dräger Safety AG & Co. KGaA