

Datasheet Breathing filter 84 ABEK

Designation: Respiratory protection screw filter ABEK2
Multi-range gas filter to DIN EN 14387 - filter type/class
A2 B2 E2 K2 as part of a respiratory protective device
to DIN EN 133 - filter device

Description: Cylindrical housing with round thread connection to DIN
EN 148-1 (external thread Rd 40 x 1/7), air inlet side
with profiled perforated disk

Article-Number: 920851

Application: In conjunction with full-face respiratory masks (DIN EN 136) with round
thread connection - for protection against organic gases and vapors with a
boiling point above 65°C, against inorganic gases and vapors e.g. chlorine,
hydrogen sulphide (hydrogen sulphide), hydrogencyanide (hydrogen
cyanide, hydrogen cyanide) - not against carbon monoxide - against sulphur
dioxide, hydrogen chloride (hydrogen chloride) and against ammonia

Standards: DIN EN 133 Respiratory protective devices - Classification
DIN EN 148-1 Respiratory protective devices - Threads for breathing
connections - Round thread connection
DIN EN 14387 Respiratory protective devices - Gas filters and
combination filters

Identification colors: brown - grey - yellow - green (adhesive label)

Materials: Housing, perforated disks Aluminum alloy
Filter medium Activated carbon
Non-woven discs Polypropylene
Sealing foil Polypropylene

Dimensions: Diameter approx. 108 mm
Height approx. 84 mm

Weight: approx. 340 grams

Inhalation resistance: < 1.4 mbar at 30 l/min constant air flow
< 5.6 mbar at 95 l/min constant air flow

Storability: 6 years - from date of manufacture (protected from cold, heat and moisture)

Handling: Only open the filter immediately before use and screw tightly into the
connector of the mask.

Main application: Painting solvent vapors (boiling point >65°C) paint strippers, chlorine,
hydrogen cyanide, hydrogen sulphide, sulphur dioxide, formic acid,
ammonia.



Revision 11.2023 – Errors and omissions excepted. All data are non-binding guide values.

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Service life:	The service life of gas filters depends on several factors such as concentration of harmful gases, ambient temperature, air humidity, work intensity, posture, etc. and therefore cannot be determined in advance. Opened filters must be replaced after 6 months at the latest.
Application limits:	according to technical rules for hazardous substances TRGS 900 "Occupational exposure limits" with full face mask (gas filter): 400 times the occupational exposure limit value Maximum permissible Gas concentration: of gas filter class 2 (A2, B2, E2, K2) = 5,000 ml/m ³
Instructions for use:	<p>The use of respiratory filters requires a basic knowledge of the function and handling of respiratory protective devices. Information on this can be found in the trade association regulations and rules, in particular in DGUV Rule 112-190.</p> <p>The use of respiratory protective devices generally means additional strain for the person wearing the respiratory protective device.</p> <p>Most respiratory protective devices require occupational health screening in accordance with the "Ordinance on Occupational Health Care" (ArbMedVV). Damaged filters must not be used.</p> <p>In ATEX areas, these respiratory protection filters can be used in potentially explosive atmospheres in zones 1, 21, 2 and 22 if the following requirements are met:</p> <ul style="list-style-type: none">• The respiratory protection filters must be connected via a dissipative mask and via the earthing of the wearer with a leakage resistance <math><108 \Omega</math>.• The respiratory protection filters must not be used in areas where highly charge-generating processes are to be expected.• In the presence of an explosive atmosphere, the respiratory protection filters may only be worn on the face mask and not on the belt.• The permissible ambient temperature must not exceed a value of 70 °C, assuming a temperature increase of 10 K at the parts in contact with an explosive atmosphere during normal operation and also in the event of a fault (zone 1 or 21) or during normal operation (zone 2 or 22) due to the activated carbon filter

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Rules / regulations: Regulation (EU) 2016/425 on personal protective equipment
 PPE Usage Ordinance (PSA-BV)
 Ordinance on Occupational Health Care (ArbMedVV)
 BGV A1 Employer's Liability Insurance Association Regulation for Safety and Health at Work - Accident Prevention Regulation - Principles of Prevention

DGUV Rule 112-190 Employer's liability insurance association rules for safety and health at work - "Use of respiratory protective devices"

Hazardous Substances Ordinance (GefStoffV) with associated Technical Rules for Hazardous Substances (TRGS), in particular TRGS 402 "Determination and assessment of hazards during activities involving hazardous substances: Inhalative exposure" and other technical rules for hazardous substances.

Order details:	Article number	Description
	920851	Gas filter 84 ABEK
	111200	Full face mask BRK 820
	111201	Full face mask BRK 820 V
	111208	Full face mask BRK 820 G
	111400	Full face mask TR 2002 CL3
	111704	Wall container for full face mask including one filter
	111705	Wall container for two full face masks including two filters
	111703	Carrying box B78 for one full face mask and one filter

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