BARTELS RIEGER

With Safety.

Datasheet Breathing filter BR A2P3

Designation:	BartelsRieger Respiratory Protection Screw Filter BR A2P3 Special filter according to DIN EN 14387, Filter Type/Class A2P3 Combination filter as part of a respiratory protection device according to DIN EN 133 – Filtering Device
Description:	Combination filter with cylindrical housing and round thread connection according to DIN EN 148-1 (external thread Rd 40 x 1/7")
Article-Number:	202427
Application:	In combination with respiratory facepieces – full face masks (DIN EN 136) or half masks (DIN EN 140) with round thread connection – for single use against organic gases and vapors with boiling points above 65 °C and against particles – not suitable for protection against carbon monoxide. (Note: The marking “D” is not included in DIN EN 14387 and therefore not indicated on the filter. The "D" previously indicated that the particle filter passed a dolomite dust clogging test. This is now only referenced in EN 149.) *

Standards:	DIN EN 133	Respiratory protective devices - Classification
	DIN EN 148-1	Respiratory protective devices - Threads for breathing connections - Round thread connection
	(DIN EN 149	Respiratory protective devices - Filtering half masks to protect against particles)
	DIN EN 14387	Respiratory protective devices - Gas filters and combination filters

Labelling: with the filter identification colours: brown – white (adhesive label)

Materials:	Housing, perforated plates	Aluminum alloy
	Filter medium	Activated carbon and glass/cellulose fibre
	Fleece discs	Polypropylene
	Sealing foil	Polypropylene
Dimensions:	Diameter approx. 108 mm Height approx. 85 mm	
Weight:	approx. 210 grams	
Inhalation resistance:	< 2,6 mbar at 30 l/min constant air flow < 9,8 mbar at 95 l/min constant air flow	

Revision 06.2025 – Errors and omissions excepted. All data are non-binding guide values.

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Filter passage:	Sodium chloride test at 95 l/min:	< 0,05 %
	Paraffin oil test at 95 l/min:	< 0,05 %

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

Handling: Open the filter packaging immediately before use only, and screw the respiratory filter firmly into the mask's connection port.

Main application: Organic gases and vapors (boiling point > 65 °C), rock dust, glass wool, mineral fibers, wood dust, soot, steel dust, herbicides and pesticides (toxic), bacteria, and viruses.

Service life: The service life of combination filters depends on several factors, such as contaminant concentration, ambient temperature, humidity, work intensity, body posture, etc., and therefore cannot be predetermined.
Opened filters must be replaced after no more than 6 months.

Application limits:

with half/ quarter Mask (particle filter):	Protection level 30
with full-face mask (particle filter):	Protection level 400
with half/ quarter Mask (gas filter):	Protection level 30
with full-face mask (gas filter):	Protection level 400

To ensure adequate protection, the protection level of the respiratory protection device must be at least equal to the measured multiple of the occupational exposure limit value of the present contaminant.

According to the technical rules for hazardous substances TRGS 900 "Occupational Exposure Limits"

Maximum permissible gas concentration:

Typ	Color	Main Application Area	Class	Filter Application Limits[1)]
A	Brown	Organic gases and vapors with boiling point > 65 °C e.g Cyclohexan, Benzol, Toluol, Xylol	2	5.000 ml/m³ (0,5 Vol.-%)[2)] 1.000 ml/m³ (0,1 Vol.-%)[3)]

[1)] The protection level of the complete respiratory protective device must always be taken into account, as it may be below the filter's limit.
[2)] Application limits for non-powered filtering devices
[3)] Application limits for powered filtering devices

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Instructions for use:

The use of breathing 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. The use of respiratory protective devices generally means additional strain for the person wearing the respiratory protective device. Most respiratory protective devices require occupational health screening in accordance with the "Ordinance on Occupational Health Care" (ArbMedVV).
Damaged filters must not be used.
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 observed:

- The respiratory protection filters must be earthed via a dissipative mask and via the earthing of the wearer with a leakage resistance $<10^8$ Ω.
- 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

Regulations / rules:

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.

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With the revision of the European standard EN 14387 in 2021, the ‘R’ and ‘D’ labelling has been removed. The labelling referred exclusively to the particle filters in combination filters and had the following meaning:
‘R’ (reusable) - the filter may be reused
Note: This does not apply when used against microorganisms.
‘D’ (dolomite) - resistant to clogging by dust (storage test)
As the BR filter series has been tested and certified in accordance with the new standard and therefore the latest technical standard, labelling with ‘R’ and ‘D’ is no longer possible due to this change compared to the old EN 14387:2008.
The filters fulfil the requirements of the storage test and are reusable.

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Order details:	Article Number	Description
	202427	Combination filter BR A2P3
	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
	202952	Half Mask BariMask HF
	111704	Wall container for full face mask including one filter
	111705	Wall container for two full face masks including tw filters
	111703	Carrying box B78 for one full face mask
	111702	FE carrying case for one full face mask and one filter

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