

INSTRUCTIONS
ADVANTAGE ABEK GAS FILTERS
EN 14387:2004+A1:2008

The copy of this product Declaration of Conformity is available at www.MSAsafety.com/Doc

The product meets the requirements of the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment. The filters described in this manual are tested and certified by CIOP Centralny Instytut Ochrony Pracy - Państwowy Instytut Badawczy; ul. Czerniakowska 16, 00-701 Warszawa (CE 1437), which also is supervising the Quality System.

WARNING

This booklet, including the warnings and cautions inside, must be carefully read and followed by all persons who use or maintain this product, including those who have any responsibility involving its selection, application, service, or repair. This filter will perform as designed only if used and maintained according to the instructions. Otherwise, it could fail to perform as designed and persons who rely on this product could sustain serious personal injury or death.

1. APPLICATION

When the set of two Advantage ABEK gas filters are attached to a half-mask or full face mask, the filters protect against organic and inorganic gases and vapors, acid gases and vapors, ammonia and organic ammonia derivatives

Applicable national regulations must be observed, especially to determine maximum allowable concentrations of toxic gases when using filters in conjunction with half masks or full face masks. For guidance the EN 529:2005 (Recommendations for selection, use, care and maintenance) is available.

2. THREATS THAT A FILTER PROTECTS AGAINST

2.1. The most common substances the Advantage ABEK gas filters protect against:

Group A substances - gas filter color code brown: Vapors from organic compounds with a boiling point higher than 65°C.

Group B substances - gas filter color code grey: Inorganic gases and vapors, e.g. hydrogen sulfide, chlorine, hydrogen cyanide.

Group E substances - gas filter color code yellow: Acidic gases, e.g. sulfur dioxide.

Group K substances - gas filter color code grey: ammonia and its organic derivatives.

For the gas filters A, B, E and K, the filter class to be used depends on the possible maximum concentration of the hazardous gas and the required service time. Filter Advantage ABEK is classified as A1B1E1K1 (EN 14387:2008), class 1 = 1.000 ppm (0,1% vol.) maximum gas concentration.

Important notice: In any case applicable National Regulations must be observed, especially to determine maximum allowable concentrations of toxic gases when using filters in conjunction with half or full face masks. Always the lowest concentration applies.

3. RECOMMENDATIONS AND RESTRICTIONS IN USE

- The Advantage ABEK gas filters may only be used in according to this instruction. The Advantage ABEK gas filter can only be used with the appropriate bayonet lock:
 - Half-masks: MSA Advantage 200LS, MSA Advantage 420;
 - Full face masks: MSA Advantage 32xx series.
- The manufacturer's instructions for use of the half-mask or full face mask must be followed.
- Before use, set of filters must be stored only in the original package.
- Observe applicable national regulations to dispose of filters.

• **WARNING**

- The permitted minimum oxygen concentration of ambient air is governed by national regulations. They have different values for minimum levels of oxygen and this must be taken into account for safe use (typically in the range 17% to 19.5%).
- Filtering devices must not be used in confined spaces (containers, canals, pits, etc.).
- Caution must be taken in oxygen enriched atmospheres (ignition) or possibly explosive atmospheres (e.g. through solvents).
- Hazardous gases that are heavier than air may have a higher concentration near the ground.
- If there is any doubt about the composition of the contaminants or their concentrations, a supplied air breathing apparatus must be used.
- Half-mask and full face masks with Advantage ABEK gas filters do not protect against carbon monoxide. Do not use half-masks and full face masks with gas filters and filters near fire.
- The service time of respiratory protective filters depends on the conditions of use. The end of service time of gas filters most of the time can be detected by odor on the clean air side. The filters must then be replaced.
- Filters used for toxic gases which do not have smell recognition on the clean air side require special rules of use with reference to the time being used and the use itself.
- Leave contaminated area in case of any the following: you smell, taste or are irritated by the contaminant; breathing becomes difficult; dizziness or distress.
- Type and concentration of the hazard in the ambient atmosphere must be known and be a level for which the use of a filtering device is permissible. Do not use the set of Advantage ABEK gas filters when contaminants are unknown or may be life threatening; the concentration of the contaminant is unknown, or when contaminant can react with gas filters causing the temperature to rise.
- Inspect each filter prior to each use.
- Do not attempt to repair Advantage ABEK gas filters

Failure to follow all warnings and instructions can result in serious personal injury or death.

4. POSSIBLE RISKS OF USING THE ADVANTAGE ABEK GAS FILTERS

4.1. Risks caused by the human factor:

Risk of lack of protection and poisoning in cases of:

- Use of gas filters after the expiry date.
- Incorrect installation of gas filters in the half mask and full face masks.
- Attempts to repair damaged gas filters
- Attempts to modify gas filters.
- Incorrect selection of gas filters for existing risks.
- Removing gas filters while in the contaminated environment (downplaying or neglecting the threat).

4.2. Mechanical risks:

Risk of lack of protection using gas filters with half-mask or full face mask with visible mechanical damage (cracks, deformations), dirty or flooded.

- Storage and transport in conditions different from those as specified.
- Use at too high (above + 50 ° C) or too low (+ 5 ° C) temperature.
- Use at the humidity of the air above 90%.

5. CHECKING TECHNICAL CONDITION

Check the technical condition of the gas filters before each use. If any damage is found, the damaged filter must be replaced.

6. FASTENING INSTRUCTION

- Remove the filters out of the protective bag. Always connect or replace both filters at the same time.
- Verify the identification data (color of the code, letter designation), to make sure that the gas filters is adequate for a given application.
- Connect the filter to the half-mask or full face mask to the bayonet at the correct position.
- Turn each filter clockwise until it is securely attached.

7. Symbols



See information supplied by the manufacturer	Se oplysninger fra producenten
Gebruiksaanleitung beachten	Se informasjon leveret av fabrikant
Véase la información suministrada por el fabricante	Consultar informação fornecida pelo fabricante
Vedere le informazioni fornite dal produttore	Katso valmistajan toimittamat tiedot.
Voir information fournie par le fabricant	Ανατρέξτε στις πληροφορίες που παρέχει ο κατασκευαστής.
Zie informatie van de fabrikant	
Se information från tillverkaren	



Maximum humidity of storage conditions	Maks. fugtighed ved opbevaring
Maximale rel. Feuchte der Lagerbedingungen	Maksimal fugtighedsbetingelser ved opbevaring
Humedad máxima de almacenamiento	Humidade máxima em armazenamento
Umidità massima delle condizioni di immagazzinamento	Varastointiolosuhteiden enimmäiskosteus
Humidité maximum des conditions de rangement	Depolama şartlarında maksimum nemlilik
Maximale relatieve vochtigheid van opslagvoorwaarden	Μέγιστη υγρασία για συνθήκες αποθήκευσης
Maximal fuktighet för förvaringsförhållanden	



Temperature range of storage conditions	Temperaturgrænser ved opbevaring
Temperaturbereich der Lagerbedingungen	Temperaturområde og opbevaringsbetingelser
Rango de temperatura de almacenamiento	Temperatura em armazenamento
Campo di temperatura delle condizioni di immagazzinamento	Varastointiolosuhteiden lämpötila-alue
Température d'utilisation et conditions de rangement	Depolama şartlarında sıcaklık bölgesi
Temperatuurbereik van opslagvoorwaarden	Εύρος θερμοκρασίας για συνθήκες αποθήκευσης
Temperaturområde för förvaringsförhållanden	



YYYY/MM

End of shelf life / year and month	Lagerholdbarhed / år og måned
Ende der Lagerfähigkeit / Jahr und Monat	Utgår på dato / år og måned
Expiración del tiempo de almacenamiento / año y mes	Prazo de validade / ano e mês
Fine della durata di immagazzinamento / anno e mese	Varastointiaika päättyy / vuosi ja kuukausi
Fin de durée d'utilisation / année et mois	Depolama süresi sonu / yıl ve ay
Einde van opslagduur / jaar en maand	Τέλος χρόνου αποθήκευσης / έτος και μήνας
Hållbarhet / år och månad	



(GB) At any time two filters only of the same type and class must be used.	(NL) Gebruik altijd uitsluitend twee filters van hetzelfde type en dezelfde klasse.	(PL) Zawsze należy stosować dwa filtry tego samego typu i tej samej klasy.
(DE) Jeweils zwei Filter gleichen Typs und gleicher Klasse müssen eingesetzt werden.	(NO) To filtre skal bare brukes sammen hvis de er av samme type og klasse.	(RO) Întotdeauna folosiți două filtre numai de același tip și aceeași clasă.
(DK) Anvend altid to filtre af samme type og klasse.	(PT) Utilizar sempre dois filtros do mesmo tipo e da mesma classe.	(RU) Оба фильтра всегда должны быть обязательно одинакового типа и класса.
(ES) Siempre deben usarse dos filtros que sean del mismo tipo y clase.	(SE) Använd alltid endast två filter av samma typ och klass.	(SK) Nazať sa môžu vždy používať iba filtry rovnakeho typu a rovnakej triedy.
(FI) Käytettävänä kahden suodattimen on oltava aina samantyyppisiä ja samaluokaisia.	(BG) Винаги трябва да използвате два филтъра от е съд тип и клас.	(UA) Одночасно можна використовувати тільки фільтри одногоного типу та класу.
(FR) Systématiquement utiliser deux filtres du même type et de la même classe	(CZ) Vždy musí být použity pouze dva filtry stejného typu a stejné třídy.	(KZ) Кез келген уақытта тек түрi мен сыныбы бірдей екі сүзгіні ғана пайдалану керек.
(GR) Να χρησιμοποιούνται πάντα μόνο δύο φίλτρα του ίδιου τύπου και κατηγορίας.	(HR) Istovremeno se smiju koristiti dva filtra istaključivo istog tipa i klase.	
(IT) Usare di volta in volta solo due filtri della stesso tipo e della stessa classe.	(HU) Mindig kizárólag azonos típusú és osztályú szűrőt kell használni.	

8. STORAGE AND SHELF LIFE

- Filters should be stored in dry storage rooms, free from harmful vapors and gases at the maximal temperature +50 °C and relative humidity of the air below 90%.
- The filters should not be stored together with toxic or harmful substances or with materials emitting unpleasant smell or acting aggressively with the elements of the set.
- Do not store the filters in a place exposed to direct sunlight or at a distance less than 1 meter from heating devices.
- Filters should be protected against mechanical damage.
- The end of the shelf life is indicated on each filter label (hour glass symbol).

9. MAINTENANCE, CLEANING, AND DISINFECTION

- Maintenance, cleaning, and disinfection of the set's cleaning elements are not required.
- It is permissible to clean the gas filters with a dry cloth. Do not use solvents, strong detergents or gasoline-based products to clean gas filters.
- Inspect the Advantage ABEK filters for any mechanical damage after each use and, if found, remove from use and replace it with a new set of filters.



MSA Europe GmbH

Schlüsselstrasse 12, 8645 Rapperswil-Jona, Switzerland

Phone: +41 43 255 89 00; www.msasafety.com

CE 1437 - Centralny Instytut Ochrony Pracy - Państwowy Instytut Badawczy; ul. Czerniakowska 16, 00-701 Warszawa