



Filters 200 series Protection against dusts, fumes and mists

DATA SHEET

214 ABEK1

Cod. 8011111



EN 14387:2004+A1:2008

EN 14387:2004+A1:2008		ABEK1	214
Minimum breakthrough time (min)	Cyclohexane C ₆ H ₁₂ (1000 ppm)	> 70	85
	Chlorine Cl ₂ (1000 ppm)	> 20	26
	Hydrogen sulfide H ₂ S (1000 ppm)	> 40	>60
	Hydrogen cyanide HCN (1000 ppm)	> 25	36
	Sulfur dioxide SO ₂ (1000 ppm)	> 20	28
	Ammonia NH ₃ (1000 ppm)	> 50	65
Breathing Resistance (mbar)	Insp 30 l/min	< 1,0	0,4
	Insp 95 l/min	< 4,0	1,6



Characteristics

The filter 214 is a gas filter and protects against gaseous contaminants. The filter 214 is equipped with a bayonet connection allowing to use it, in pair, on BLS half masks EVO R and EVO S and full face masks 5600 and 5700.

Application

The filter 214 is a filter that protects against organic gases and vapors (boiling point above 65 °C), inorganic gases and acids, from sulfur dioxide and ammonia vapors and its derivatives. It is classified in terms of capacity as a class 1 gas filter (low capacity filter).

Protection

Exposure limit filter 214:
with half masks: for gases and vapors * 50 x TLV;
with full face masks: for gases and vapors 2000 * x TLV
* = NPF (nominal protection factor) as specified in EN 529:2005.

Materials

The filter 214 is made with the following materials:

- Filter housing: ABS
- Gas filter: carbon layer type ABEK

Height (bayonet excluded): 25 mm
Diameter: 93 mm
Weight: 96 ± 5 g

These filters can be used on half and full face masks.

Certification

The filter 214 is CE marked as a PPE Category III under the European Directive 89/686/EEC according to the harmonized standard EN 14387:2004 + A1: 2008. The conformity of the PPE model in question (Article 10) and production control with monitoring (Article 11.B) are rated by Srl Italcert Notified Body n° 0426. BLS is a company with a quality management system certified according to ISO 9001:2008.

Certification tests

The filter 214 complies to EN 14387:2004 + A1: 2008 norm and has passed Standards for Class 1 tests for the gas.

• Breathing Resistance

The resistance of the filter to the air flow must be as low as possible and, in any case, must be greater than the following values for the gas filters (Section 6.11 of EN 14387): with air flow to 30 l / min should not exceed 1.0 mbar and with airflow to 95 l / min should not exceed 4.0 mbar.

• Capacity of protection (the gas)

The filter 214 is tested according to par. 6:12 of standard EN 14387:2004 to verify the minimum time of rupture, when exposed to a test gas at a certain concentration. For the filter 214 the test gas used is that provided by the standard and reported in the table, with the corresponding break down time.

Application, Limitation, Warning

BLS filters cannot be used in the following conditions:

–when nature and concentration of contaminant are unknown –when oxygen content is lower than 17% in volume (which is often the case of closed environments without ventilation such as wells, tunnels, cisterns, etc) –when the contaminant is carbon monoxide or an odourless and tasteless gas –when certain conditions are dangerous to the worker health and life.

Filter must not be modified or altered. Leave the work area when the filter or breathing apparatus has been damaged and if you have difficulty in breathing and / or illness. Persons whose olfactory sense is altered shall not use filter respirators. During works with open flames or liquid metal droplets the use of personal protective equipment with gas or combined filters may cause risks for the operators.

Filter use and maintenance

BLS filters must be used with half masks and full face masks with the same kind of connection. Carefully read the instructions for use of the filters and the one of the equipment (half mask or full face mask) is used with. Each new filter pair is packed in a sealed bag. Choose the filter keeping attention to the colour and identification marking and check that the filter is of the correct type for the intended use. Check that the filter is not out-of-date (the expiration date is printed on all the filters; this date shall be valid if the filter is kept sealed in accordance with the storage instructions). Inspect both the filter and facepiece for any breaks or damage. To use, open the sealed packet, fit the two filters to the filter housing on the half mask or full face mask, screwing the filter up tightly. In normal use conditions, filters shelf life is not only due to the pollutant concentration but to many other elements difficult to define, such as air humidity, air temperature, air inspired volume, weariness of the worker, etc. The operator shall leave immediately the work area and replace the filters when he starts to smell the contaminant. At the end of the work shift, the respirator shall be stored in a clean and dry place, according to the storage conditions indicated in the user information. BLS filters does not require maintenance and at the end of their use should not be blown, washed or regenerated in any way. Exhausted filters shall be replaced at the same time and dismantled according to the National regulations and considering the substances they have retained.

Storage time: 5 years (factory sealed), which is indicated on the label of the filter (hourglass symbol).

Storage conditions: temperature between -10 ° C and +50 ° C, relative humidity <80%.

Minimum unit of sale box (8 filters)

For more information, please refer to the instruction manual for the use of BLS filters.

Technical Details

Each filter is tested:

– breathing resistance and weight for gas protection (carbon)



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