Full face masks

Protection against gases and vapours, mists and dusts

DATA SHEET

BLS 5250 EN 136:1998 Cl.2

code 8001037

EN 136:1998 performance tests		EN136	BLS5250
Total inward leakage (%)		< 0,05	0,001
Breathing resistance (mbar)	inhal. 30 l/min	< 0,5	0,2
	inhal. 95 l/min	< 1,5	0,6
	inhal. 160 l/min	< 2,5	1,1
	exhal. 160 l/min	< 3,0	2,3
CO_2 content (%)		< 1,0	0,3

Main features

BLS 5250 full face mask is characterized by a soft rubber facepiece, an adjustable head harness with six fast realise buckles and a panoramic visor. The inner mask is equipped with two inhalation valves, to reduce visor misting and assist comfort. The two lateral connections for filters are special threaded, to be used with all the BLS 300 series filters equipped with the same thread (gas, particle and combined filters).

Materials

BLS 5250 full face mask is made by the following materials:
- facepiece: synthetic rubber
- inner mask: silicone
- visor: polycarbonate
- filter holder (connections): ABS
- head harness: synthetic rubber

Weight: 570 g

300 series filters

BLS 5250 full face mask can be fitted with two BLS 300 series gas, particle and combined filters, equipped with special threaded connection. The filters are screwed directly to the lateral connections of the mask, always in pair and of the same type.

Correct usage

Exposure limits for full face masks with particle filters:
full face mask + P2 filter = 15* x TLV
full face mask + P3 filter = 400* x TLV
Exposure limits for full face masks with gas filters:
full face mask + class 1 filter = 400* x TLV (or 1000 ppm)
full face mask + class 2 filter = 400* x TLV (or 5000 ppm)
full face mask + class 3 filter = 400* x TLV (or 10000 ppm)
* = APF as specified in EN 529:2005 standard (value for Italy)

Certification

BLS 5250 full face mask fulfils the requirements of EN 136:1998 standard and is CE marked, as provided by the 89/686/EEC European Directive, as a PPE of III category . Italcert S.r.l. (Notified Body n° 0426) is the responsible of the CE certification (Art. 10) and of the final product control (Art.11.A). All the products are manufactured in a company that is ISO 9001:2008 certified.

Certification tests

BLS 5250 full face mask meets the requirements of EN 136:1998 standard and has been submitted to the tests provided by class 2 of the reference standard.

- ***Total inward leakage***

The full face mask must have a good face fitting. The total inward leakage test provides that 10 subjects carry out a series of exercises simulating the work conditions fitting the respirator. During the test, the test aerosol (Sodium chloride) is measured to see how much of aerosol passes through face seal leakage and exhalation valve leakage. Total inward leakage shall be not greater than 0,05%.

- Breathing resistance

Breathing resistance offered from the mask must not be greater than the following values: during the test with breathing machine (25 cycles/min and 2,0 l/stroke) or continuous flow 160 l/min shall not exceed 2,5 mbar for inhalation and 3,0 mbar for exhalation. The inhalation resistance shall not exceed 0,5 mbar with continuous air flow 30 l/min and 1,5 mbar with continuous air flow 95 l/min.

- ***Carbon dioxide***

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).

- ***Visual field***

A full face mask equipped with a visor must be designed to have a real visual field not lower than 70% (BLS 5250 = 86,8%) of the natural visual field and a binocular visual field not lower than 80% of the Natural binocular visual field (BLS 5250 = 88,8%).

Warnings

Donning and leak tightness test
After the checks necessary before use, donning the mask following the next procedure:
1) elongate the straps of the head harness as much as possible; put the harness behind the neck and put the chin into the face seal, keeping the two lower straps stretched open with the hands; 2) pull the mask over the head and adjust it on the face. Be sure that hair does not remain trapped between seal and forehead; 3) adjust the side straps, then the upper straps and finally the lower ones. Do not tight the straps excessively; 4) before entering a contaminate atmosphere, check the tightness of the mask: whilst wearing the mask, close the special lateral connections where the filter must be screwed using the palm of the hands and take a deep breath. The mask should collapse in towards the face and remain so for as long as you hold your breath. This check is necessary to ensure that the face seal is fitted correctly. If it is not, tighten the straps or adjust the mask over the face. Then repeat the check until the fit is perfect.
Cleaning and disinfecting
Take particular care of any contaminants deposited on the mask. All cleaning should take place in safe areas. Do not use abrasive substances to clean the visor. Cleaning and disinfection operations: 1) After removing mask and contaminated filter, clean under running water to remove most of the contaminants; then clean more fully by placing in boiling water (temperature not upper to 40°C) with a common neutral soap. If disinfection is required, use a solution of a common disinfectant based on active chlorine diluted in sodium chloride. 2) Dry the mask with a soft, clean cloth or make it dry naturally. 3) When dry, clean the visor with clean cotton wool.

Storage time: 10 years (factory sealed), as shown on label.
Storage conditions: temperature range -10°C e +50°C, Relative Humidity < 80%, as shown on label (pictogram of thermometer and umbrella).

For all the information about applications, limitations of use and maintenance, see the User's manual enclosed to each full face mask (code ISU0016_02).

Technical Details

The soft termoplastic rubber gasket offers greater user comfort.

The panoramic visor, with a distortion-free field of vision, ensures a higher level of user safety and less vision weariness.

In order to offer a longer product lifespan and greater user safety the visor was subject to anti-fog, anti-scratch and anti-acid treatment.

The mask offers a greater fit guarantee and uniform seal thanks to its gasket with 6 harness joints on the rigid body of the mask and not on the soft face seal. This design avoids marking the user's face and avoids pressure points, ensuring greater user comfort and a more uniform seal to the user's face.

The possibility to use the same filters of the half mask TP2000 grants a high practical value and ensures financial savings for the user.

The valves of the inner silicone rubber face seal are completely flat and ensure a higher user safety.

The mask is designed with two lateral filter connectors for a better balance the weight of the filters and granting a wider field of vision. The lateral filter design offers a greater user comfort and ensures a high safety level in the product use.

The optional fabric harness offers greater user comfort thanks to higher transpiring capacity and greater lightness compares to the rubber harness.

Flaps on the filter connector route the air flow to the entire filtering surface, increasing the efficiency and using the entire surface, increasing its economical value.

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Full face masks

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DATA SHEET

BLS 5500 EN 136:1998 Cl.2

code 8001041

EN 136:1998 performance tests		EN136	BLS5500
Total inward leakage (%)		< 0,05	0,001
Breathing resistance (mbar)	inhal. 30 l/min	< 0,5	0,2
	inhal. 95 l/min	< 1,5	0,6
	inhal. 160 l/min	< 2,5	1,1
	exhal. 160 l/min	< 3,0	2,3
CO_2 content (%)		< 1,0	0,3

Main features

BLS 5500 full face mask is characterized by a soft silicone facepiece, an adjustable head harness with six fast realise buckles and a panoramic visor. The inner mask is equipped with two inhalation valves, to reduce visor misting and assist comfort. The two lateral connections for filters are special threaded, to be used with all the BLS 300 series filters equipped with the same thread (gas, particle and combined filters).

Materials

BLS 5500 full face mask is made by the following materials:
- facepiece: silicone
- inner mask: silicone
- visor: polycarbonate
- filter holder (connections): ABS
- head harness: synthetic rubber

Weight: 580 g

300 series filters

BLS 5500 full face mask can be fitted with two BLS 300 series gas, particle and combined filters, equipped with special threaded connection. The filters are screwed directly to the lateral connections of the mask, always in pair and of the same type.

Correct usage

Exposure limits for full face masks with particle filters:
full face mask + P2 filter = 15* x TLV
full face mask + P3 filter = 400* x TLV
Exposure limits for full face masks with gas filters:
full face mask + class 1 filter = 400* x TLV (or 1000 ppm)
full face mask + class 2 filter = 400* x TLV (or 5000 ppm)
* = APF as specified in EN 529:2005 standard (value for Italy)

Certification

BLS 5500 full face mask fulfils the requirements of EN 136:1998 European Standard and it has the CE marking according to the European Directive 89/686/EEC, as a PPE of III category. Italcert Srl (Notified Body n°0426) is the responsible of the certification (Art. 10) and of the final product control (Art. 11.A). The products are manufactured in a company that is EN ISO 9001:2000 certified.

Certification tests

BLS 5500 full face mask meets the requirements of EN 136:1998 standard and has been submitted to the tests provided by class 2 of the reference standard.

- ***Total inward leakage***

The full face mask must have a good face fitting. The total inward leakage test provides that 10 subjects carry out a series of exercises simulating the work conditions fitting the respirator. During the test, the test aerosol (Sodium chloride) is measured to see how much of aerosol passes through face seal leakage and exhalation valve leakage. Total inward leakage shall be not greater than 0,05%.

- Breathing resistance

Breathing resistance offered from the mask must not be greater than the following values: during the test with breathing machine (25 cycles/min and 2,0 l/stroke) or continuous flow 160 l/min shall not exceed 2,5 mbar for inhalation and 3,0 mbar for exhalation. The inhalation resistance shall not exceed 0,5 mbar with continuous air flow 30 l/min and 1,5 mbar with continuous air flow 95 l/min.

- ***Carbon dioxide***

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).

- ***Visual field***

A full face mask equipped with a visor must be designed to have a real visual field not lower than 70% (BLS 5500 = 86,8%) of the natural visual field and a binocular visual field not lower than 80% of the Natural binocular visual field (BLS 5250 = 88,8%).0

Warnings

Donning and leak tightness test
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Technical Details

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