

## Antiacid Hood

code 8001084



## EN 14605:2005+A1:2009 Pb[3] Pb[4]

EN 136:1998 performance tests		EN136	5400
Total inward leakage (%)		< 0,05	0,001
Breathing resistance (mbar)	insp. 30 l/min	< 0,5	0,2
	insp. 95 l/min	< 1,5	0,8
	insp. 160 l/min	< 2,5	1,8
	esp. 160 l/min	< 3,0	2,6
CO <sub>2</sub> content(%)		<1,0	0,4

### Main features

The full face mask BLS 5400 type EN 136:1998 Cl.3 can be equipped with antiacid hood type EN 14605:2005+A1:2009 Pb[3] Pb [4]. The mask can be used with filters compatible with standard thread type EN 148-1. The overhead shroud covers the head, shoulders and upper chest and, unlike other overheads, there are no gaps between the facepiece and the hood. This overhead is permanently connected between the polycarbonate visor and the facial gasket, eliminating the possibility of user errors and the passages of contaminant through the mask seal. This design leaves the head harness outside the hood, for easy straps adjustment.

### Materials

BLS 5400 full face mask is made of the following materials:

- face piece: silicone rubber
- inner mask: silicone
- visor: polycarbonate
- filter holder (connection): ABS
- head harness: synthetic rubber

The anti acid hood is made of a core of high tenacity polyamide with two layers of neoprene and a finish of hypalon.

### Hood features

Synthetic neoprene rubber has high endurance to deterioration from greases, acids and diluted basis, non oxydizing salt solutions, aliphatic hydrocarbons, refrigerants, vegetable oils. The finish of hypalon on the right has been given to increase abrasion resistance.

Weight of the fabric base	UNI EN 12127	90 gr/mq +/- 10%
Weight of finished fabric	EN 12127	350 gr/mq +/- 10%
Weave	UNI 8099	plain
Number of thread per unit lenght	EN 1049-2	<ul style="list-style-type: none"> <li>· warp 26 +/- 2</li> <li>· woof 20 +/- 2</li> </ul>
Textiles count	UNI 9275	<ul style="list-style-type: none"> <li>· warp 235 dTex +/-10%</li> <li>· woof 235 dTex +/-10%</li> </ul>
Tensile strenght	ISO 13934-1/100	<ul style="list-style-type: none"> <li>· warp 160 kg +/- 10%</li> <li>· woof 87 Kg +/- 10%</li> </ul>
coating	plain	150 gr/sqm neoprene + 20 gr hypalon +/-10%
coating	purl	70 gr/sqm neoprene +/-10%
Water proofness at constant pressure (40cmX24h)	UNI 5123	perfect

### Certification

The BLS 5400 full face mask fulfills the requirements of EN 136:1998 European Standard and carries CE marking according to the European Directive 89/686/EEC, as a PPE of III category. Italcert Srl (Notified Body n°0426) is responsible for certification (Art. 10) and control (Art. 11.B). The hood has been tested according to the results show with the Characteristics of the Hood and wit the Protective Levels. The products are manufactured in an ISO 9001:2008 certified company.

### Protective Levels

This fabric has been designed and built to resist to chemical attack by products harmful to health and safety. The classification of the chemical protection provided by the fabric according to UNI-EN 369/93 performed at room temperature is the following:

#### ABRASION RESISTANCE ACCORDING TO UNI-EN 530 AND 465

Average value 14750 cycles class 6

#### HEAT COHESION (resistance to blocking) according to ISO 5978 and UNI-EN 465

No stickyness class 2

#### RESISTANCE TO CRACK DUE TO BENDING ACCORDING TO ISO 7854 B METHOD AND UNI-EN 466

After 500.000 cycles samples do not display cracks or covering detachment of support class 5

#### RESISTANCE TO PIERCING ACCORDING TO prEN 863 AND UNI-EN 465

Average value 35 N class 2

#### RESISTANCE TO TEARING ACCORDING TO ISO 4674 METHOD A1 AND UNI-EN 465

Average value web 36,1 N  
Average value warp 60 N class 2

#### COATING ADHESION STRENGTH ACCORDING TO ISO 2411 AND UNI-EN 465

It is not possible to determine the resistance to separation because coating adhesion on the support is greater than that given by glue coating class 5

### Protective Levels – Chemical Penetration and Permeation Resistance

#### Penetration Resistance according to EN 368

Substance	Repulsion index (%)	Penetration Index (%)
Hydrogen Fluoride – HF 40%	3 (91%)	3 (0%)

#### Permeation Resistance against liquid chemicals according to EN 369 and EN 465

Substance	Permeation Resistance (minutes)	Permeation Resistance (Class)
Dimethyl sulfide - (CH <sub>3</sub> ) <sub>2</sub> S	188,5 average	4
Sodium hydroxide – NaOH 50%	> 480	6
Propanol	310,5 average	5

#### Permeation Resistance against liquid chemicals according to EN 374

Substance	Permeation Resistance (minutes)	Permeation Resistance (Class)
Sulfuric acid – H <sub>2</sub> SO <sub>4</sub> 90%	>480	6

#### Permeation Resistance against liquid chemicals according to ISO 6529

Substance	Permeation Resistance (minutes)	Permeation Resistance (Class)
Sulfuric acid – H <sub>2</sub> SO <sub>4</sub> 98,5%	>240	5

### Technical details

The hood fabric reacts with strong acids. Interaction with strong acids could be revealed by the change in hood colour.

