

BLS 5400/C (code 8001084)

FULL FACE MASK WITH ANTIACID HOOD AND UNIVERSAL FILTER FITTING EN148-1



EN 136:1998 TESTS	EN136	5400
Total inward leakage (%)	< 0,05	0,001
Breathing resistance (mbar)	Inhalation 30 l/min	0,2
	Inhalation 95 l/min	0,8
	Inhalation 160 l/min	1,8
	Exhalation 160 l/min	2,6
CO ₂ 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 overhood shroud covers the head, shoulders and upper chest and, unlike other overhoods, there are no gaps between the facepiece and the hood. This overhood 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®.

CERTIFICATION

The BLS 5400 full face mask complies with the requirements of the European standard EN 136:1998 and has the CE mark according to the European Regulation 425/2016 (personal protection devices) and is CE certified as 3rd category PPE according to the technical standard EN 149:2001+A1:2009. The CE certification and the control (module D) are carried out by Italcert S.r.l. (notified body no. 0426). The hood has been tested based on the results presented with respect to the characteristics of the hood and its levels of protection. The product is 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

BLS 5400/C (code 8001084)

FULL FACE MASK WITH ANTIACID HOOD AND UNIVERSAL FILTER FITTING EN148-1

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 g/m ² ± 10%
Weight of finished fabric	EN 12127	350 g/m ² ± 10%
Weave	UNI 8099	Plain
Number of thread per unit lenght	EN 1049-2	Warp 26 ± 2 Woof 20 ± 2
Textiles count	UNI 9275	Warp 235 dTex ± 10% Woof 235 dTex ± 10%
Tensile strenght	ISO 13934-1/100	Warp 160 kg ± 10% Woof 87 Kg ± 10%
Coating	Plain	150 g / m ² Neoprene® + 20 g Hypalon® ± 10%
Coating	Purl	70 g / m ² Neoprene® ± 10%
Water proofness at constant pressure (40cm*24h)	UNI 5123	Perfect

TECHNICAL DETAILS

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



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 ₃) ₂ 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 ₂ SO ₄ 90%	> 480	6
PERMEATION RESISTANCE AGAINST LIQUID CHEMICALS ACCORDING TO ISO 6529		
Substance	Permeation Resistance (minutes)	Permeation Resistance (Class)
Sulfuric acid – H ₂ SO ₄ 98,5%	> 240	5