



FEEL FREE
TO BREATHE



BLS 200 SERIES

TWIN FILTERS WITH BAYONET CONNECTION



TECHNICAL DATA SHEET

blsgroup.it

EN_Rev-0117

Proudly MADE IN ITALY

BLS, *since* 1970

FEATURES



Activated carbons

- WITHOUT TOXIC HEXAVALENT CHROMIUM
- HIGH POROSITY GRADE
CTC INDEX 85%, long lasting
- FOOD GRADE
Not harmful in case of accidental
ingestion or inhalation



Bayonet connection

- LOCK FEEDBACK
filter lock indication thanks to end of stroke mark
- INTUITIVE
connect the filter easily and quickly
- DURABLE
made in ABS, strong mechanical resistance



Canister

- IN ABS, NON DEFORMABLE
carbon grain's compression is controlled,
avoiding air tunnels in areas of the filter



Dust filter

- FILTER EFFICIENCY 99,99%

TYPE OF FILTERS



Dust prefilter



Dust



*Gases &
Vapours*



Combined

AVAILABLE MODELS

Protection

ABEK CODE	COLOUR CODE	ARTICLE	DESCRIPTION	STOCK CODE	WEIGHT (g)	HIGHT (mm)	DIAMETER (mm)	Q.TY per BOX	Q.TY per CARTON
P3 R	○	202	Dusts	8011118	62 ±5	25	93	8	64
A2	●	211	Organic (boiling point > 65°C) gases& vapours	8011109	82 ±5	25	93	8	64
AX	●	212	Organic (boiling point < 65°C) gases& vapours	8011205	110 ±5	32	93	8	64
ABE1	● ● ●	213	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours	8011110	90 ±5	25	93	8	64
ABEK1	● ● ● ●	214	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours + Ammonia & derivatives	8011111	96±5	25	93	8	64
A2P3 R	● ○	221	Organic (boiling point > 65°C) gases& vapours + Dusts	8011112	115±5	43	97	8	64
ABEK1P3 R	● ● ● ● ○	222	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours + Ammonia & derivatives + Dusts	8011113	125±5	43	97	8	64
AXP3 NR	○ ●	225	Organic (boiling point < 65°C) gases& vapours + Dusts	8011206	149±5	50	97	4	32
ABE1P3 R	● ● ● ○	226	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours +Dusts	8011145	130±5	43	97	8	64
A2	●	241	Organic (boiling point > 65°C) gases& vapours (LONG LASTING)	8011132	102 ±5	32	93	8	64
ABE2	● ● ●	242	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours	8011133	110 ±5	32	93	8	64
ABEK2	● ● ● ●	243	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours + Ammonia & derivatives	8011114	124 ±5	32	93	8	64
K2	●	244	Ammonia & derivatives	8011134	120 ±5	32	93	8	64
A2P3 R	● ○	251	Organic (boiling point > 65°C) gases& vapours (LONG LASTING) + Dusts	8011138	145±5	50	97	4	32
ABE2P3 R	● ● ● ○	253*	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours +Dusts	8011140	153 ±5	50	97	4	32
ABEK2P3 R	● ● ● ● ○	254*	Organic (boiling point > 65°C), inorganic, acid _ gases& vapours + Ammonia & derivatives + Dusts	8011141	158 ±5	50	97	4	32
P2 NR	○	301	Dust prefilter	8011042	5,5	2	75	16	64

* this filter cannot be used with a half mask, 2 filters > 300 g

Transport

DEVICES WITH THE SAME CONNECTION



Half Masks
BLS 4000S / BLS 4000R



Full Face Masks
BLS 5700 - BLS 5600

TECHNICAL DATA

Materials

CANISTER	Acrylonitrile butadiene styrene (ABS)
DUST FILTER	Pleated fiber medium
GASES&VAPOURS FILER	Activated Carbons

Storage

TEMPERATURE	-10° / +50° C
UMIDITY	70%
DURATION	5 years

Certification

BLS filters are:

- CE marked, certified according with DIR 89/686/EEC European Directive
- certified as PPE of III category, in presumption of conformity to harmonized standard EN 14387:2004
- certified (Art. 10) and controlled (Art. 11.B) by Italcert S.r.l. (Notified Body n° 0426)

BLS management system is ISO 9001:2008 certified.

SELECTION GUIDE

Colour Codes

AX	Organic (boiling point < 65°C) gases& vapours
A	Organic (boiling point > 65°C) gases& vapours
B	Inorganic gases& vapours
E	Acid gases& vapours
K	Ammonia & derivatives
P	Dusts

Protection

TYPE OF FILTER	NPF with	
	HALF MASK	FULL FACE MASK
DUST	48*TLV (P3)	1000*TLV (P3)
GASES&VAPOURS	50*TLV	2000*TLV
COMBINED	48*TLV (P3)	1000*TLV (P3)

TLV Threshold Limit Value **NPF** Nominal Protection Factor

PERFORMANCES

Dust

EN 143:2000/A1:2006 performance tests			VALUE	BLS 202 P3 R
Paraffin oil penetration (%)	P	after 3 minutes	< 0,05	?
		after 63 minutes	< 0,05	?
		after storage	< 0,05	?
Breathing resistance (mbar)		Exhalation 30 l/min	< 2,6	?
		Inhalation 95 l/min	< 9,8	?

Gases & vapours

EN 14387:2004 performance tests			CLASSE 1				CLASSE 2					
			VALUE	BLS 213 ABE1	BLS 214 ABEK1	VALUE	BLS 211 A2	BLS 212 AX	BLS 241 A2	BLS 242 ABE2	BLS 243 ABEK2	BLS 244 K2
Minimum breakthrough time (min)	AX	Dimethylether CH3OCH3 (500 ppm)	-	-	-	> 50	-	?	-	-	-	-
		Isobutane C3H10 (2500 ppm)	-	-	-	> 50	-	?	-	-	-	-
	A	Cyclohexane C6H12 (5000 ppm)	> 70	?	?	> 35	?	-	?	?	?	-
	B	Chlorine Cl2 (5000 ppm)	> 20	?	?	> 20	-	-	-	?	?	-
	E	Hydrogen sulfide H2S (5000 ppm)	> 40	?	?	> 40	-	-	-	?	?	-
		Hydrogen cyanide HCN (5000 ppm)	> 25	?	?	> 25	-	-	-	?	?	-
		Sulfur dioxide SO2 (5000 ppm)	> 20	?	?	> 20	-	-	-	?	?	-
K	Ammonia NH3 (5000 ppm)	> 50	-	?	> 40	-	-	-	-	?	?	
Breathing resistance (mbar)			Exhalation 30 l/min	< 2,2	?	?	< 2,6	?	?	?	?	?
			Inhalation 95 l/min	< 8,2	?	?	< 9,8	?	?	?	?	?

Combined

EN 14387:2004 performance tests			CLASSE 1			CLASSE 2						
			VALUE	BLS 222 ABEK1P3	BLS 226 ABE1P3	VALUE	BLS 221 A2P3	BLS 225 AXP3	BLS 251 A2P3 R	BLS 253 ABE2P3	BLS 254 ABEK2P3	
Minimum breakthrough time (min)	AX	Dimethylether CH3OCH3 (500 ppm)	-	-	-	> 50	-	?	-	-	-	
		Isobutane C3H10 (2500 ppm)	-	-	-	> 50	-	?	-	-	-	
	A	Cyclohexane C6H12 (5000 ppm)	> 70	?	?	> 35	?	-	?	?	?	
	B	Chlorine Cl2 (5000 ppm)	> 20	?	?	> 20	-	-	-	?	?	
	E	Hydrogen sulfide H2S (5000 ppm)	> 40	?	?	> 40	-	-	-	?	?	
		Hydrogen cyanide HCN (5000 ppm)	> 25	?	?	> 25	-	-	-	?	?	
		Sulfur dioxide SO2 (5000 ppm)	> 20	?	?	> 20	-	-	-	?	?	
K	Ammonia NH3 (5000 ppm)	> 50	?	-	> 40	-	-	-	-	?		
Paraffin oil penetration (%)	P	after 3 minutes	< 0,05	?	?	< 0,05	?	?	?	?	?	
		after 63 minutes	< 0,05	?	?	< 0,05	?	?	?	?	?	
		after storage	< 0,05	?	?	< 0,05	?	?	?	?	?	
Breathing resistance (mbar)			Exhalation 30 l/min		< 2,2	?	?	< 2,6	?	?	?	?
			Inhalation 95 l/min		< 8,2	?	?	< 9,8	?	?	?	?