

**RESPIRATORY
PROTECTION
PRODUCTS**

BLS SRL
via dei Giovi, 41
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info@blsgroup.it - www.blsgroup.com

BLS Zer0 SERIES

DISPOSABLE CUP SHAPED FILTERING FACEPIECES



The anatomic disposable BLS Zer0 series filtering facepieces offer maximum protection with an outstanding breathing comfort. They have a micro-mesh on the surface that prevents the clogging of the filtering material and the absorption of liquids, thus extending the life of the device. Great transpiration performances with a ratio of transmission of water vapour through the material equal to 3500 g/m²*24hrs.



AVAILABLE WITH ACTIVATED CARBONS

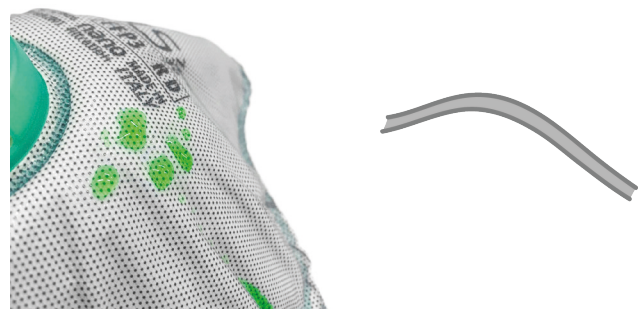
Activated carbons protect from acid and organic gases-vapours and ozone below the Threshold Limit Value (TLV), specific for every substance.

HIGH EFFICIENCY EOLO VALVE

Eolo Technology is our system for fixing the valve's membrane on three points instead of one, which allows an air passage in exhalation 30% higher than traditional valves, concentrating it in two points of maximum opening.

EXTERNAL PROTECTIVE LAYER ARMOR®

Ensures the protection of the filtering material from dirt, dust and liquids, extending and preserving filtering efficiency, thanks to a reduced mechanical stress, which could damage the material.

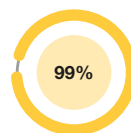


PROTECTION

Better than a P3



STANDARD

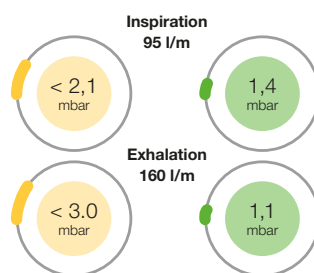


*BLS Zer0



BREATHING RESISTANCE

Better than a P1



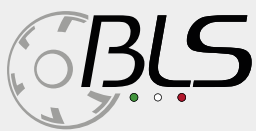
* tested by BLS Lab

ANATOMIC

The pre-formed cup and elastic support makes an easier and reliable fit, perfectly adapting to different physiognomies and ensuring an excellent hold. It offers an excellent visual field and a great compatibility with glasses.

INTERNAL NOSE CLIP

The nose clip, placed internally between the layers of filtering material, adapts optimally to the profile of the nose and eyes, ensuring good visibility and maximum compatibility with glasses.

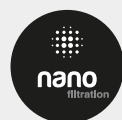


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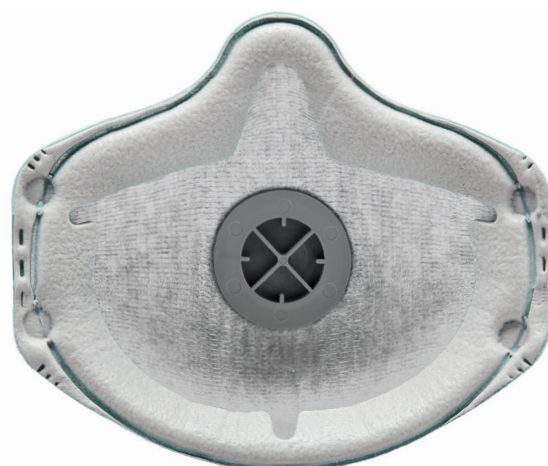
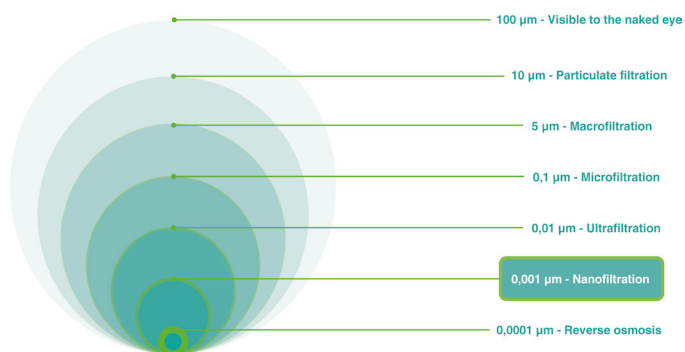


INTERNAL SUPPORT

The new material has more eco-friendly requirements than the previous green fabric, as well as being lighter and softer, for a more pleasant contact with the face.

WHAT ARE NANOPARTICLES AND WHY IS IT SO IMPORTANT TO PROTECT ONSELF?

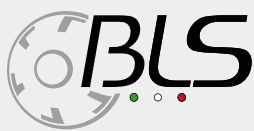
They are particles with a diameter of approximately 1 to 100 nm (0.001 μm 0.1 μm). Recent studies have shown that some nanoparticles can penetrate cells and tissues, move through the body and brain and cause biochemical damage. In particular, the small size of nanopowders allows them to behave in a manner that can be described as intermediate between that of gases and the rest of suspended particulate matter. Adequate protection is therefore essential.



EXAMPLES OF NANOPARTICLES

Diesel engine emissions, in welding, metal cutting, foundries. BLS Zero filtering masks ensure 99% filtration of nanoparticles, as verified by tests carried out at the Itene Research Institute (Valencia) - Test report of September 10th 2022.

		AL ₂ O ₃	TiO ₂	ZnO	Graphene
Penetration (%)	0,89	0,92	0,91	0,61	0,92
Filtration efficiency (%)	99,211	99,08	99,09	99,39	99,08

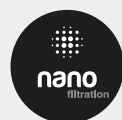


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MATERIALS

ELASTICS	Welded thermoplastic elastomer (TPE)
NOSE CLIP	Reinforced Polypropylene (PP) with heat treated metal
VALVE	Polypropylene (PP); rubber
GASKET	Foamed polymer coupled with polyester textile (PES)
FILTERING MATERIAL	Polypropylene (PP)
PROTECTIVE LAYER	Polyethylene (PE)
CARBON LAYER	Polyester (PES)
INTERNAL SUPPORT	White Polyethylene (PE)

*All components in direct contact with user's face are LATEX FREE
The product is made in Europe, as all its components*

TECHNICAL DATA

PRODUCT	CODE	CLASS of PROTECTION	FPN	EXHALATION VALVE	CARBON LAYER	ELASTICS	GASKET
BLS ZerO 30 NV	8006334	FFP3 R D	50*TLV			Welded	Partial
BLS ZerO 30	8006332	FFP3 R D	50*TLV	✓		Welded	Partial
BLS ZerO 30 C	8006333	FFP3 R D	50*TLV	✓	✓	Welded	Partial
BLS ZerO 31	8006335	FFP3 R D	50*TLV	✓		Welded	Complete
BLS ZerO 31 C	8006336	FFP3 R D	50*TLV	✓	✓	Welded	Complete

*(NR) Not Reusable, 8 hours max (R) Reusable (TLV) Threshold Limit Value
(ACTIVATED CARBONS) Able to block gases&vapours organic and acid with concentrations lower than the TLV (NPF) Nominal Protection Factor
(D) The product passed Dolomite test, simulates a heightened level of solid particles*

TRANSPORT

PRODUCT	CODE	WEIGHT (g)	Q.TY/BOX	Q.TY/CARTON	CARTON WEIGHT (Kg)	Q.TY/PALLET
BLS ZerO 30 NV	8006334	15	10	120	3,15	3840
_single pack	8006339	17	10	120	3,51	3840
BLS ZerO 30	8006332	18	10	120	3,74	3840
_single pack	8006337	20	10	120	4,1	3840
BLS ZerO 30 C	8006333	20	10	120	3,92	3840
_single pack	8006338	22	10	120	4,28	3840
BLS ZerO 31	8006335	20	10	120	3,74	3840
_single pack	8006340	22	5	60	2,9	1920
BLS ZerO 31 C	8006336	22	10	120	4,1	3840
_single pack	8006341	24	5	60	3,09	1920

STORAGE

SHELF-LIFE	10 years / 5 years (models with activated carbon)
TEMPERATURE	+5°C / +40°C
RELATIVE HUMIDITY	< 60%

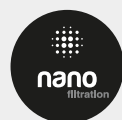


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AVAILABLE MODELS



BLS Zer0 30 NV



BLS Zer0 30



BLS Zer0 31



BLS Zer0 30C



BLS Zer0 31C

CERTIFICATION

BLS filtering facepieces are:

- Certified according to European Regulation 2016/425 (Personal Protective Equipments)
- Certified as PPE of III category, in presumption of conformity to harmonized standard EN 149:2001+A1:2009
- Certified and controlled according to Annex D by Italcert S.r.l. (Notified Body n°0426)
- CE marked

BLS management system is ISO 9001 certified.

SELECTION GUIDE

PROTECTIVE LAYER _ ALL MODELS

- The external protective layer makes BLS Zer0 series filtering facepieces suitable for handling in highly contaminated environments (i.e. when using gloves)

NO VALVE _ BLS Zer0 30 NV

- Also protects the environment from the user
- Ideal in all working environments where contamination from the user must be avoided

CARBON LAYER _ BLS Zer0 30 C / BLS Zer0 31 C

- Able to block organic and acid gases and vapours with concentrations lower than the TLV
- Ideal for operations with ozone related (risk concentrations lower than the TLV)

FULL GASKET (nose + chin) _ BLS Zer0 31 / BLS Zer0 31 C

- Guarantees the best fit on all face sizes
- Extends product's life
- Soft and abrasion resistant material

IMPORTANT

BLS declines any responsibility, direct or indirect, from any misuse of both devices and instructions. User is responsible for the determination of product compliance with the intended use.