

BLS Zer0 32 ACTIVE SERIES

DISPOSABLE CUP SHAPED FILTERING FACEPIECES WITH ACTIVE SHIELD VALVE

BLS Zer0 32 Active series smart filtering facepieces offer maximum protection combined with exceptional breathing comfort. Together with the Active Shield valve, this mask features above-average breathability performance (water vapour transmission ratio 3500 g/m² * 24hrs).



reddot winner 2021



SMART EXHALATION VALVE

Narvalo Active Shield is the innovative air extraction valve for FFP3 masks developed by Narvalo, a start-up and spin-off from Politecnico di Milano, with BLS and POLIHUB. This smart valve ensures optimal breathing comfort, thanks to an adaptive fan that reduces heat and humidity and extracts CO₂ ensuring maximum freshness during use.

Narvalo

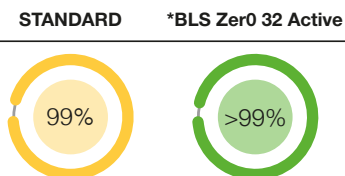
Air of Change

spin off®

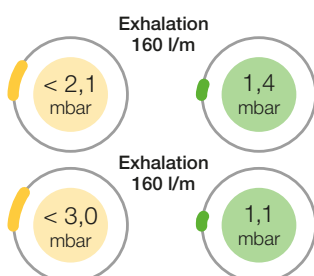
POLITECNICO DI MILANO

PoliHub
Innovation Park
Startup Accelerator

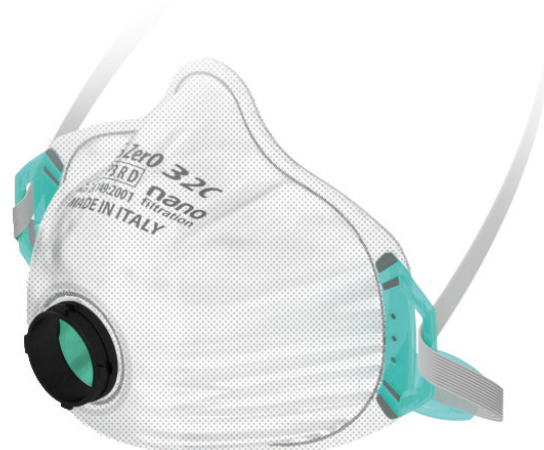
PROTECTION
Better than a P3



**BREATHING
RESISTANCE**
Better than a P1

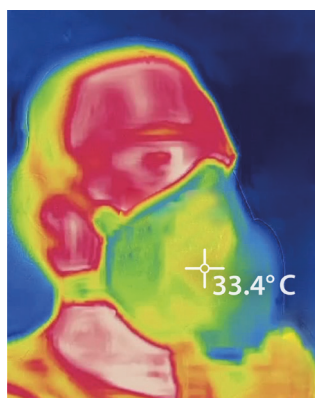


* tested by BLS Lab

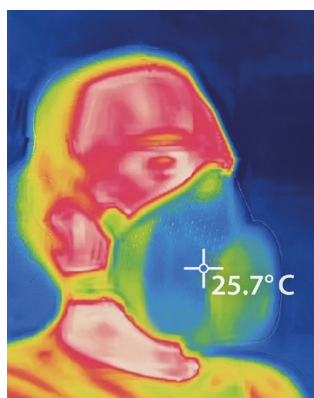


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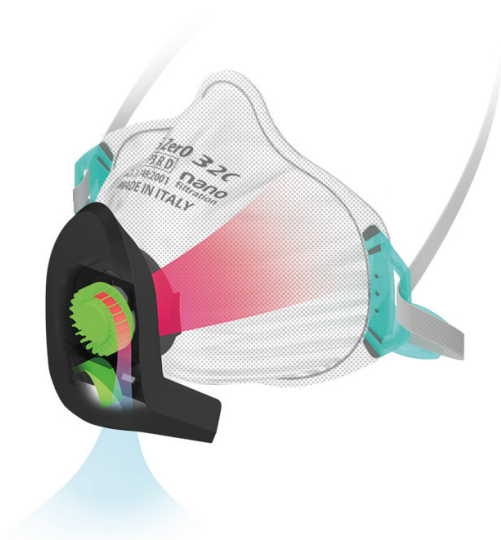
DISPOSABLE CUP SHAPED FILTERING FACEPIECES WITH ACTIVE SHIELD VALVE



ACTIVE SHIELD OFF



ACTIVE SHIELD ON



VERSTELLBARE GUMMIBÄNDER

The sliding and adjusting system of elastics facilitates the balancing of the filtering facepiece, ensuring correct positioning on the face. The release of the rear hooks allows rapid removal of the facepiece, via the drop-off system.



SMART VENTILATION

The adaptive ventilation system extracts the CO₂ produced during breathing by reducing heat and moisture retained inside the mask. Thanks to the pressure sensor, Narvalo Active Shield modulates the fan speed according to the user's breathing frequency, ensuring constant breathing comfort even during strenuous activities.

LITHIUM BATTERY

The lithium battery (800 mAh) gives the device up to 5 hours of autonomy and it is easily rechargeable via the micro USB charging socket on the side of the device.

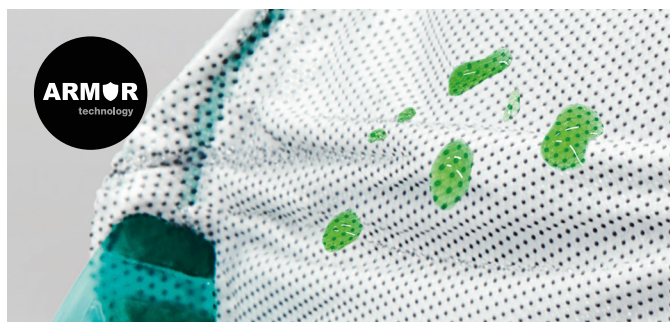
RESISTANCE TO DUST AND LIQUIDS

Narvalo Active Shield device is designed to resist dust and liquid contaminants, achieving IP 53 certification.



EXTERNAL PROTECTIVE LAYER

The innovative micro-net protects the filter material from dirt, dust and liquids, preserving and prolonging its filtering efficiency and reducing mechanical stress, which could tear or damage the material.



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MATERIALS

ELASTICS	Polyester (PES) and rubber
ELASTIC HOLES	Polypropylene (PP)
REAR HOOKS	Polypropylene (PP)
NOSE CLIP	Reinforced Polypropylene (PP) with heat treated metal
GASKET	Foamed polymer coupled with polyester textile (PES)
FILTERING MATERIAL	Polypropylene (PP)
PROTECTIVE LAYER	Polyethylene (PE)
CARBON LAYER	Polyester (PES) + carbons
ACTIVE SHIELD	ABS/Polycarbonate (PC)

All components in direct contact with user's face are LATEX FREE

TECHNICAL DATA

PRODUCT	CODE	CLASS of PROTECTION	FPN	CARBON LAYER	ELASTICS	GASKET	SINGLE PACK
BLS Zer0 32 Active	8101070	FFP3 R D	50*TLV		Sliding	Complete	✓
BLS Zer0 32 C Active	8101071	FFP3 R D	50*TLV	✓	Sliding	Complete	✓

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

TRANSPORT

PRODUCT	CODE	WEIGHT (g)	Q.TY/BOX	Q.TY/CARTON	CARTON WEIGHT (Kg)	Q.TY/PALLET
BLS Zer0 32 Active	8101070	27	5	60	2,94	1.440
BLS Zer0 32 C Active	8101071	28.5	5	60	3,03	1.440
Narvalo Active Shield	0003041	52	1	4	0.73	-

FILTERING FACEPIECE STORAGE

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

ELECTRONIC VALVE STORAGE

WARRANTY	1 year
TEMPERATURE	+5°C / +40°C
RELATIVE HUMIDITY	<60%

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AVAILABLE MODELS



BLS Zer0 32 Active
BLS Zer0 32 C Active

COMPATIBLE MODELS



Narvalo
Active Shield

ACCESSORIES



5-slot Active Shield
Battery Charger

CERTIFICATION

BLS Zer0 32 Active filter facepieces have been certified in combination with Narvalo Active Shield valve.

SELECTION GUIDE

PROTECTIVE LAYER _ ALL MODELS

- The external protective layer makes the facepiece durable and suitable for handling in highly contaminated environments (i.e. use of gloves)

CARBON LAYER _ BLS Zer0 32 C Active

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

FULL GASKET _ ALL MODELS

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

ACTIVE SHIELD VALVE_ ALL MODELS

- Reduces moisture stored inside the mask
- Ensures freshness during use
- Extracts CO² produced during respiration

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.