



**ZELINSKY
GROUP**



RESPIRATORY PROTECTION

OUR COMPANY

Zelinsky Group is a leading developer and manufacturer of respiratory personal protective equipment based on materials and components of own production. It meets all the requirements of international standards. The aim of the brand is to protect people and the whole world, emphasizing the relationship with the case of the great scientist Nikolay Zelinsky, the creator of the first effective gas mask.

Each product of Zelinsky Group passes daily strict quality control. Valuable experience, highly qualified specialists, ability to innovate are the main advantages of Zelinsky Group. For more than 80 years we have been successfully creating products that ensure the safety of life and health.

Our doors are always open for you. We will be glad to provide you with comprehensive assistance and offer products of the highest quality.

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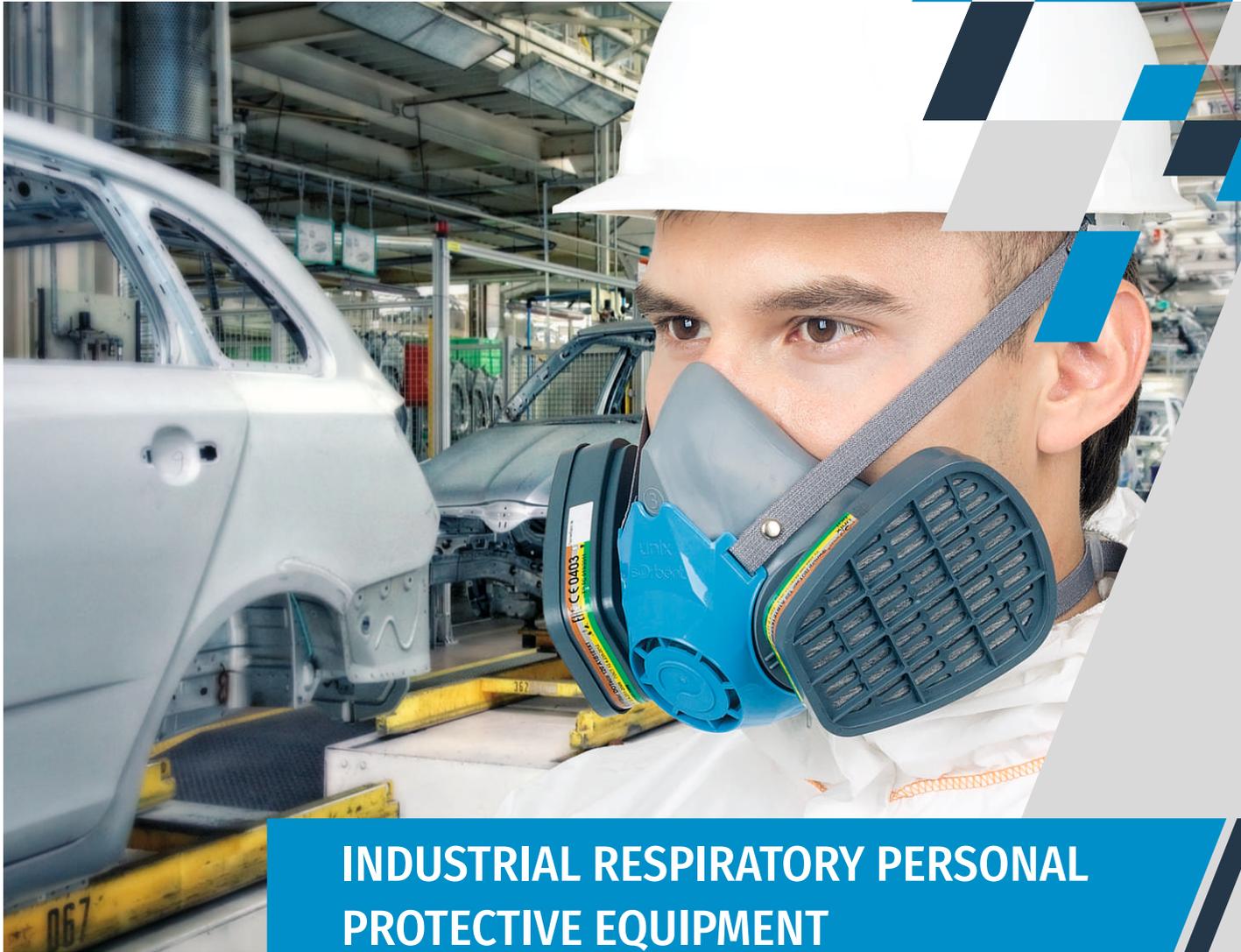
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INDUSTRIAL RESPIRATORY PERSONAL PROTECTIVE EQUIPMENT BAYONET SERIES

Great attention is paid to ensuring safe working conditions around the world. Reliable protection of employees of industrial enterprises can be achieved with the rational choice and proper use of products that provide reliable protection against all kinds of harmful substances. Zelinsky Group develops and produces modern personal protective equipment for employees of any industry and different conditions of the production environment. All products pass daily strict quality control.

Industrial respiratory personal protective equipment

FULL FACE MASK UNIX 6100

Full face mask UNIX 6100 (silicone) with bayonet connection of UNIX filters. The mask is distinguished by low weight (not more than 480 g), low profile (combined with protective helmets) and glass with protection from fogging and scratches. It is intended for use as a part of the filtering gas mask. The product is **CE** marked.



Silicone version

- increased strength of the head harness, face seal and inner mask
- elasticity of the mask when exposed to high and low temperatures

Mounting on the head

- convenient adjustment of the head harness allows to put on and remove the mask quickly
- head harness with four mounting points

Mask housing

- low profile – compatible with protective helmets

Panoramic glass made of polycarbonate

- the field of vision is more than 80 %
- mechanical strength

Additional options

- glass with protection from fogging and scratches
- replaceable protective film

Bayonet connection of filters

- fast and reliable one-click filter replacement

Speech device

- speech intelligibility
- ability to work with means of communication

Exhalation valve

- has a protective screen
- exhale downwards - no effect of air flow on the work surface
- ability of exhalation valve disc cleaning

Name	Size	Class	Material	Filter fitting	Connected filter	Compliance with regulations
UNIX 6100	three sizes	1	silicone	bayonet	UNIX	EN 136

FULL FACE MASK UNIX 5000/UNIX 5100

Full face masks provide supply of air and simultaneous face and eyes protection from hazardous substances. The masks are made of high-strength materials. It reduces fatigue during work and permits to work in the mask for extended period of time. The product **CE** is marked.



Five-point head harness with self-tightening buckles
quick fastening and reliable fixation on head

Hard panoramic visor
- comfort and safety due to wide panoramic view
- glass with protection from fogging and scratches

Universal size
excludes process of determining anthropometric dimensions

Double-sided bayonet connection
balanced weight distribution when connecting filters

Speech device
- speech intelligibility
- ability to work with means of communication

Choose the best variant for you:
rubber (UNIX 5000) or silicone (UNIX 5100)

Name	Size	Class	Material	Filter fitting	Connected filter	Certification
UNIX 5000	one universal size	2	rubber	bayonet	UNIX	EN 136
UNIX 5100			silicone			

SELECT THE RIGHT PROTECTION (FULL FACE MASKS)

FULL FACE MASK
UNIX 5000, UNIX 5100, UNIX 6100



UNIX 303 P3 R D

Particle protection only



UNIX 203 P3 R D

Particle protection only



UNIX 223 P3 R D

Particle filter with additional protection from harmful gases and vapors up to 1 PEL (permissible exposure limit)



UNIX 213 P3 R D

Particle filters with additional protection from harmful gases and vapors up to 1 PEL (permissible exposure limit)



UNIX 501 A1
UNIX 502 A2
UNIX 512 K2
UNIX 521 A1B1E1
UNIX 531 A1B1E1K1
UNIX 522 A2B2E2



UNIX P1
UNIX P2
UNIX P3



RETAINER

Protection from gases, vapors and particles

HALF MASK UNIX 2100

Half mask body

snug fit to the face with minimal pressure due to the anatomically correct silicone seal

The advantages of the silicone version

- increased strength of the half mask
- elasticity of the half mask when exposed to high and low temperatures
- silicone maintains the temperature of the facial skin when exposed to various external temperatures

Quick release mechanism

Such mechanism makes it easy to drop down the respirator from face without removing head straps. This eliminates the need for removal of other PPE. It is implemented due to the U-shaped lever, which creates tension of the head harness when donning and weakens it when removed.

Protective screen

- exhalation is directed downwards - it excludes the effect of air flow on the working surface
- prevents clogging, damage and freezing of the valve disc to the saddle of the exhalation valve

UNIX 2100 is available in three sizes – 1, 2, 3.

Lightweight

The maximum weight of the half mask is not more than 145 g.



Quick donning and removal of UNIX 2100 half mask with filters



Conditions of use

Oxygen content
in the air is not
less than

17%
by vol.

The content of
gaseous and
vaporous
substances is not
more than
50 PEL

The ambient
temperature is
from
+40°C
-40°C

1. To remove the half mask: take the "U-shaped" lever located on the protective screen with one hand.
2. Lift the lever up until it stops.
3. The tension of the head harness straps will weaken, the half mask will fall down.
- 4-5. To put on the half mask: push the lever down until it clicks, the half mask will return to its original position.

HALF MASK UNIX 1000/UNIX 1100

Light, comfortable and easy-to-use UNIX half masks used with filters provide effective protection in various working conditions. The product is **CE** marked.

Head harness

adjustable in five points, comfortable and easy to use

Elastic material

minimal pressure and tight fit to face

Dismountable half mask

simple and easy hygienic cleaning

Half mask design

good visibility and compatibility with devices for protection of eyes, head, ears

Bayonet system

quick and safe connection of replaceable filters

Choose the best variant for you:

TPE (UNIX 1000) or silicone (UNIX 1100) half mask body



Name	Size	Material	Filter fitting	Connected filter	Certification
UNIX 1000	three sizes	TPE	bayonet	UNIX	EN 140
UNIX 1100		silicone			

Industrial respiratory personal protective equipment

FILTERS WITH BAYONET

UNIX filters are used with UNIX 5000 or UNIX 5100, UNIX 6100 full face masks, UNIX 1000 or UNIX 1100 half masks. Filters comply with EN 14387 and EN 143.

UNIX 500 gas filter



UNIX 203 P3 R D particle filter



UNIX 213 particle filter



UNIX 223 particle filter



UNIX 303 particle filter



UNIX particle filter



Filter retainer



Name	Classification	
UNIX 501	A1	
UNIX 502	A2	
UNIX 512	K2	
UNIX 521	A1B1E1	
UNIX 531	A1B1E1K1	
UNIX 522	A2B2E2	

Name	Classification	<input type="checkbox"/>
UNIX 203	P3 R D	<input type="checkbox"/>
UNIX 213	P3 R D	<input type="checkbox"/>
UNIX 223	P3 R D	<input type="checkbox"/>
UNIX 303	P3 R D	<input type="checkbox"/>
UNIX	P1 R	<input type="checkbox"/>
UNIX	P2 R	<input type="checkbox"/>
UNIX	P3 R	<input type="checkbox"/>

UNIX 521 A1B1E1 extra features*



Cl ₂		x 2,5
H ₂ S		x 2
HCN		x 2
SO ₂		x 3,5

UNIX 531 A1B1E1K1 extra features*



Cl ₂		x 2,5
H ₂ S		x 2
HCN		x 2

- EN 14387 requirements

- extra protection provided by filter



* - approved extra protection in accordance with EN 14387

SELECT THE RIGHT PROTECTION (HALF MASKS)

HALF MASK UNIX 1000/ UNIX 1100



UNIX 303 P3 R D

Particle protection only



UNIX 203 P3 R D

Particle protection only



UNIX 223 P3 R D

Particle filter with additional protection from harmful gases and vapors up to 1 PEL (permissible exposure limit)



UNIX 213 P3 R D

Particle filters with additional protection from harmful gases and vapors up to 1 PEL (permissible exposure limit)



- UNIX 501 A1**
- UNIX 502 A2**
- UNIX 512 K2**
- UNIX 521 A1B1E1**
- UNIX 531 A1B1E1K1**
- UNIX 522 A2B2E2**



- UNIX P1**
- UNIX P2**
- UNIX P3**



RETAINER

Protection from gases, vapors and particles

UNIX FILTER ADAPTER

Zelinsky Group has developed an adapter for UNIX 500 gas filters, which allows you to connect them to particle filters UNIX 203, UNIX 213, UNIX 223, UNIX 303 to provide combined protection (against vaporous and gaseous substances and particles) as part of gas masks and UNIX respirators.

This solution is designed for users who have to change UNIX P1, P2, P3 prefilters too often, due to the peculiarities of the working conditions (strong dustiness). Using the adapter also increases the service life of the gas filters and provides a tight connection of the particle filter to the gas filter.



INSTRUCTIONS



1-2. Attach the adapter to the cover of the gas filter until it snaps into place.

3-4. Combined filter assembly: align the three slots on the UNIX 203 P3 R D, UNIX 213 P3 R D or UNIX 223 P3 R D particle filter and three protrusions on the adapter. Turn the filter clockwise until it stops.

5. Attach the combined filter to the mask by turning it clockwise until it stops.





INDUSTRIAL RESPIRATORY PERSONAL PROTECTIVE EQUIPMENT THREAD SERIES

MAG full face masks and filters with thread connection make up an extensive and flexible range of effective solutions intended for extreme working conditions. The concept is based on the idea of equal reliability regardless industrial hazards. Using full face masks combined with any of DOTpro filters allows to minimize personal accident effects and makes working conditions safe.

Industrial respiratory personal protective equipment

MAG/MAG-4 FULL FACE MASK

Full face masks with filters provide effective protection of respiratory organs, eyes and face from vaporous and gaseous harmful substances and particles contained in the air of working zone. The product is **CE** marked.



Five-point head harness with self-tightening buckles
quick adjustment and reliable fixation on head

Double seal
tight and stable fit to face

Inner mask
no fog

Visor
wide panoramic view and reliable eye protection

Speech device
- speech intelligibility
- ability to work with means of communication

Reliable threaded filter joints

Choose the best variant for you:
rubber (MAG) or silicone (MAG-4) face seal, inner mask and head harness



Name	Size	Class	Material	Filter fitting	Connected filter	Certification
MAG	one universal size	2	rubber	thread (EN 148-1)	DOTpro, DOT	EN 136
MAG-4			silicone			

FILTERS WITH THREAD (EN 148-1)

DOTpro FILTERS

DOTpro filters with MAG full face masks are used for protection from harmful gaseous, vaporous substances and particles. The filters comply with EN 14387. The product is **CE** marked.

DOTpro 150



DOTpro 250



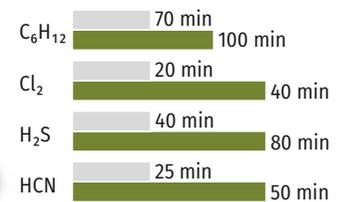
Name	Classification
DOTpro 150	A1P3 R D
DOTpro 150	K1P3 R D
DOTpro 150	A1B1E1P3 R D
DOTpro 150	A1B1E1K1P3 R D

Name	Classification
DOTpro 250	A2
DOTpro 250	K2
DOTpro 250 +	A1B1E2
DOTpro 250	A1B1E1K1

DOTpro 150 combined filters have minimal dimensions



DOTpro 250+ A1B1E2 extra features*



* – approved extra protection in accordance with EN 14387

– EN 14387 requirements

– extra protection provided by filter

Industrial respiratory personal protective equipment

FILTERS WITH THREAD (EN 148-1)

DOTpro 320



THE BEST
COMPACT
FILTER



Name	Classification
DOTpro 320	A2P3 R D 
DOTpro 320 +	K2P3 R D 
DOTpro 320	HgP3 R D 

Name	Classification
DOTpro 320	A2B2E2K2P3 R D 
DOTpro 320 +	A2B2E2P3 R D 

DOTpro 320+ K2P3 D extra features*, no less than



NH₃ 

DOTpro 320+ A2B2E2P3 R D extra features*, no less than



H₂S 

* – approved extra protection in accordance with EN 14387

 – EN 14387 requirements

 – extra protection provided by filter

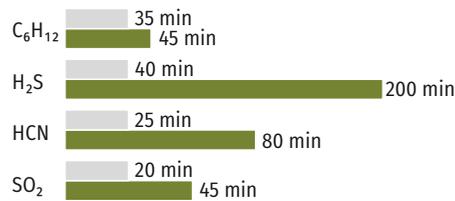
DOTpro 460



Name	Classification
DOTpro 460	K3
DOTpro 460 +	A2B2E2
DOTpro 460 +	A2B2E2K2
DOTpro 460 +	A2B2E2AX

Name	Classification
DOTpro 460*	A3AX
DOT M 460	A1B1E1K2 + protection from carbon monoxide

DOTpro 460+ A2B2E2 extra features*



DOTpro 460+ A2B2E2AX extra features*



DOTpro 460+ A2B2E2K2 extra features*



DOT M 460 for reusable protection from carbon monoxide



* – approved extra protection in accordance with EN 14387

– EN 14387 requirements

– extra protection provided by filter

Industrial respiratory personal protective equipment

FILTERS WITH THREAD (EN 148-1)

DOTpro 600



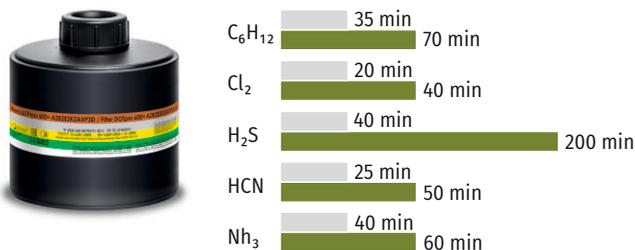
DOTpro M 600



Name	Classification
DOTpro 600	A3AXP3 R D 
DOTpro 600 +	K3P3 R D 
DOTpro 600 +	A2B2E2K2AXP3 R D 

Name	Classification
DOTpro M 600	A2B2E2K2P3 R D + protection from nitrogen oxides 

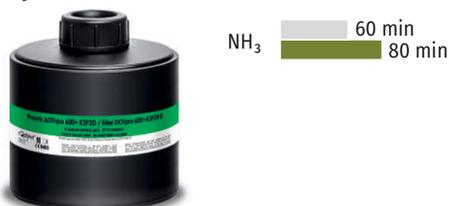
DOTpro 600+ A2B2E2K2AXP3 R D extra features*



DOTpro M 600 for reusable protection from nitrogen oxides



DOTpro 600+ K3P3 R D extra features*



* - approved extra protection in accordance with EN 14387

 - EN 14387 requirements

 - extra protection provided by filter

SELECT THE RIGHT PROTECTION (THREAD)



FULL FACE MASK MAG
FULL FACE MASK MAG-4



DOTpro 150



DOTpro 320



DOTpro 600

Gas, vapor and particle protection



DOTpro 250



DOTpro 460

Gas and vapor protection





OTHER INDUSTRIAL RPE

FRESH AIR HOSE BREATHING APPARATUS PSH-1, PSH-2

Purpose

Fresh air hose breathing apparatus PSH-1, PSH-2 are designed to protect the respiratory system, eyes and skin from hazardous substances in the air regardless of their concentration. Also they are used to operate in oxygen-deficient working zones. The device is applied in various sectors of industry, agriculture and public utilities to operate inside of tanks, reservoirs, wells, compartments and other isolated systems.

Depending on the design of air supply hose, they may be made as a fresh air hose breathing apparatus (self-suction) and as a powered fresh air hose breathing apparatus (forced air supply).



Conditions of use

Oxygen content
in the air is not
less than
17%
by vol.

With unknown
composition and
concentration
of vaporous and
gaseous
substances

Ambient
temperature
-40°C
+40°C

**Safe work
at heights**

Technical characteristics

Fresh air hose breathing apparatus	PSH-1	PSH-2
Breathing resistance to constant air flow at a flow rate of 30 dm ³ /min, Pa	When inhaling - no more than 200 When exhaling - no more than 200	When exhaling - 127
Breakthrough time	Not limited	
Respirator is airtight at excessive air pressure, Pa	1000	
Working temperature, °C	from -40 to +40	
Shelf life, years	3	

PARTICLE RESPIRATOR F-62SH

Purpose

Particle respirator F-62SH is designed to protect the respiratory system from solid toxic substances which do not emit toxic gases and vapors, silicate, metallurgical, mining, coal, tobacco and other dust. It also can be used to provide protection against different effective dust and pulverized fertilizer.

The respirator is completed with replaceable filter. The device is reusable.



Technical characteristics

Name of indicator	Value of indicator
Breathing resistance to constant air flow at a flow rate of 30 dm ³ /min, no more than, Pa When inhaling	35 (3,5)
When exhaling	60 (6,0)
Coefficient of inward leakage, %, no more than	2
Carbon dioxide at inhaled air, %, no more than	1
Fine dust filtering efficiency, %, no more than	99,9
Working temperature, °C	from -40 to +40
Weight, g, no more than	250
Shelf life, years	3

Conditions of use

Oxygen content
in the air is
not less than
17%
by vol.

Concentration
of particles
is more than
200
mg/dm³

Ambient
temperature
+40°C
-40°C

ISOLATING GAS MASK IP-4MK

Purpose

The IP-4MK is designed to protect the respiratory system, eyes and skin from hazardous impurities despite their concentration in the air and to work in lack of oxygen conditions. The gas mask is completed with the facepiece and is equipped with communication system.

Isolating gas mask principle of operation is based on using chemically bonded oxygen. It has closed-circuit breathing system. Exhaled air is delivered into the regenerative cartridge. There is a special substance inside the regenerative cartridge which absorbs carbon dioxide and humidity containing in the exhaled air and releases necessary oxygen for breathing.



Technical characteristics

Name of indicator	Value of indicator
Operating time on the ground, no less than, min -performing emergency rescue operations -at rest	45 180
Working temperature, °C	from -40 to +40
Dimensions of gas mask in a bag, mm	340x165x290
Weight, no more than, g	1800
Shelf life, years	5

Conditions of use

With unknown composition and concentration of hazardous chemicals in the air

Ambient temperature
+40°C
-40°C

PORTABLE BREATHING APPARATUS PDU-5

Purpose

The device is used at lack of oxygen or instant threat to life in working area, evacuation in emergency situation, hazardous substances volume excess (including hydrogen sulphide), unknown hazardous substances composition and concentration in the air of working area.



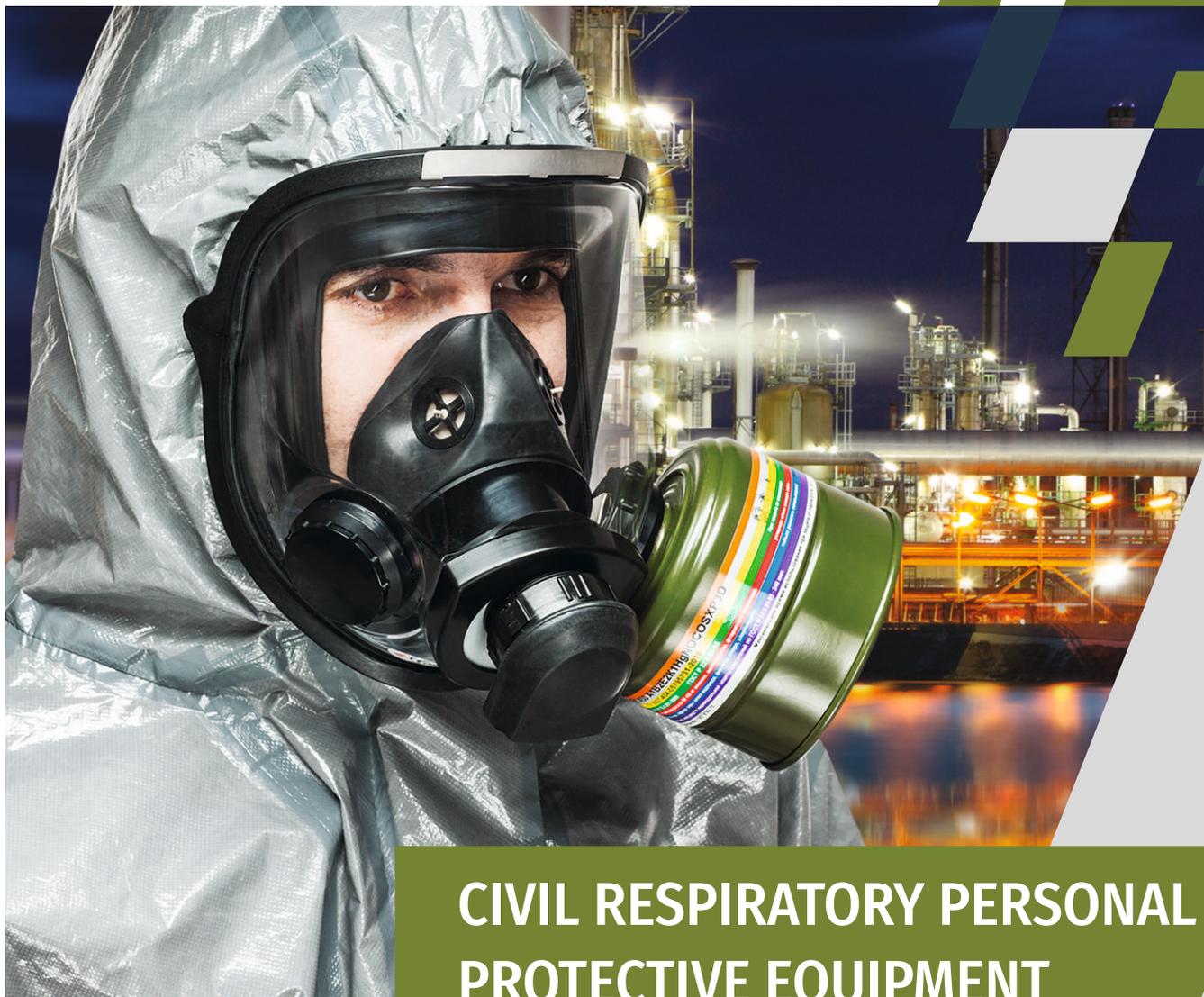
The apparatus is manufactured in 2 complete sets:

- with mask (PDU-5M),
- with hood (PDU-5K).

Technical characteristics

Name of indicator	Value of indicator
Working temperature, °C	From -35 to 60
Inhaled air temperature, °C, max	50
Breathing bag volume, L, more than	6
Operating time, min, no less than	20
Weight, kg, max	1,5
Dimensions in a bag, mm	230x140x210
Dimensions in a plastic case, mm	135x225
Shelf life, years	5,5





CIVIL RESPIRATORY PERSONAL PROTECTIVE EQUIPMENT

As a result of different activities, people use chemicals that may have a harmful effect or lead to air pollution. Effective and reliable means of protection are required to protect the population from biological, radiation and chemical effects, as well as to eliminate the consequences of emergencies by rescue units. Zelinsky Group develops and produces modern personal protective devices for the needs of civil defense, which pass daily strict quality control.

Civil respiratory personal protective equipment

UZS VK EKRAN

Purpose

The gas mask is intended for protection of civilian and industrial personnel in conditions of emergency, natural and industrial disasters.

The gas mask provides protection from ABEKP substance classes, specific toxic chemical agents, radioactive substances, particles, including biologic and radioactive dust.

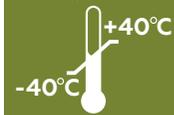


Conditions of use

Oxygen content
in the air is
not less than

17%
by vol.

Ambient
temperature



Content of harmful
vaporous and
gaseous substances
is not more than

0,1%
by vol.

Technical characteristics of UZS VK EKRAN

Name of indicator	Value of indicator
Initial resistance of the gas mask to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, Pa	216
Initial resistance of the filter to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, Pa	176
Suction coefficient of standard oil mist under the facepiece, %, no more than	0,0001
Permeability coefficient of standard oil mist, %, no more than	0,0002
Carbon dioxide content in inhaled air, %, no more than	1,0

MZS VK EKLAN

Purpose

The gas mask is intended for protection of civilian and industrial personnel in conditions of emergency, natural and industrial disasters.

The gas mask provides protection from ABEKP substance classes, specific toxic chemical agents, radioactive substances, particles, including biologic and radioactive dust.



Conditions of use

Oxygen content
in the air is
not less than

17%
by vol.

Ambient
temperature



Content of harmful
vaporous and
gaseous substances
is not more than

0,1%
by vol.

Hg

Content of mercury
vapor is not more
than **0,0001%**
by vol.

NO

Nitrogen oxide
content is not more
than **0,25%**
by vol.

CO

Content of carbon
monoxide is not
more than **0,5%**
by vol.

Technical characteristics of MZS VK EKLAN

Name of indicator	Value of indicator
Initial resistance of the gas mask to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, Pa	245
Initial resistance of the filter to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, Pa	206
Suction coefficient of standard oil mist under the facepiece, %, no more than	0,0001
Permeability coefficient of standard oil mist, %, no more than	0,0002

Civil respiratory personal protective equipment

CIVIL GAS MASK GP-7 (GP-7V)

GP-7



Purpose

The gas mask GP-7 (GP-7V) is designed to protect the respiratory organs and eyes of the adult population, including staff of non-military formations of civil defense against toxic substances of the probable enemy, radioactive dust and bacterial aerosols, and also can be used for protection against abnormally chemically dangerous substances:

- chlorine;
- hydrogen sulphide;
- sulfur dioxide;
- hydrogen chloride;
- tetraethyl;
- ethyl mercaptan;
- nitrobenzene;
- phenol;
- furfural;
- radionuclides of iodine and its organic compounds.

GP-7V

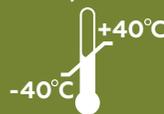


Conditions of use

Oxygen content
in the air is
not less than

17%
by vol.

Ambient
temperature



Technical characteristics of GP-7 (GP-7V)

Name of indicator	Value of indicator
Initial resistance of the gas mask to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, Pa	176,4
Initial resistance of the filter to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, Pa	156,8
Suction coefficient of standard oil mist under the facepiece, %, no more than	0,0002
Permeability coefficient of standard oil mist, %, no more than	0,0001

CIVIL GAS MASK GP-21

Purpose

Civil gas mask GP-21 is designed to provide protection of the respiratory system, face and eyes of the civil population including non-military civil defense personnel against toxic agents, radioactive dust, biological aerosols, iodine radioisotope and its organic compounds, dangerous chemical substances and dangerous chemical substances of inhalation exposure.

Facepiece MP-3 is a component of the civil gas mask and is manufactured in 2 sizes: 1, 2.

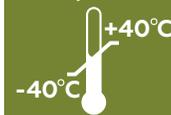


Conditions of use

Oxygen content
in the air is
not less than

17%
by vol.

Ambient
temperature



Technical characteristics

Name of indicator	Value of indicator
Breathing resistance to constant air flow at a flow rate of 30 dm ³ /min, no more than, Pa When inhaling / When exhaling	185 / 78.4
Field of vision, %, not less than	78
Coefficient of inward leakage, %, no more than	0,0001
Speech intelligibility, %, no less than	96
Dimensions, in a bag, mm	280x210x100
Weight, no more than, g	760
Shelf life, years	12,5

FILTERING GAS MASKS FOR CHILDREN PDF-2D AND PDF-2SH

Purpose

Filtering gas mask PDF-2D is designed to protect preschool children over one and a half years old. Filtering gas mask PDF-2SH is designed to protect school-age children.

Filtering gas masks PDF-2D and PDF-2SH are made in three versions: 1 - with filtering absorbing box GP-7K; 2 - with filter VK 320; 3 - with filter VK 450.



Protective properties

Filtering gas masks PDF-2D and PDF-2SH protect the respiratory organs, eyes and face of children from toxic substances of the probable enemy, biological aerosols, radioactive dust, radionuclides of iodine and its organic compounds and particles in the form of dust, fume and mist at ambient temperature from -40 to +40°C.

Gas masks PDF-2D and PDF-2SH with filters VK 320 and VK 450 additionally protect children in emergency, natural and man-made disasters, accompanied by the release of harmful substances into the atmosphere.

Conditions of use

Oxygen content
in the air is
not less than

17%
by vol.

Ambient
temperature



Filtering absorbing box and filters for gas masks PDF-2D and PDF-2SH

Filter type	The color code of filter type	Particle protection	The presence of breathing hose
Filtering absorbing box GP-7K	-	+	+
Filter VK 320		+	+
Filter VK 450		+	+

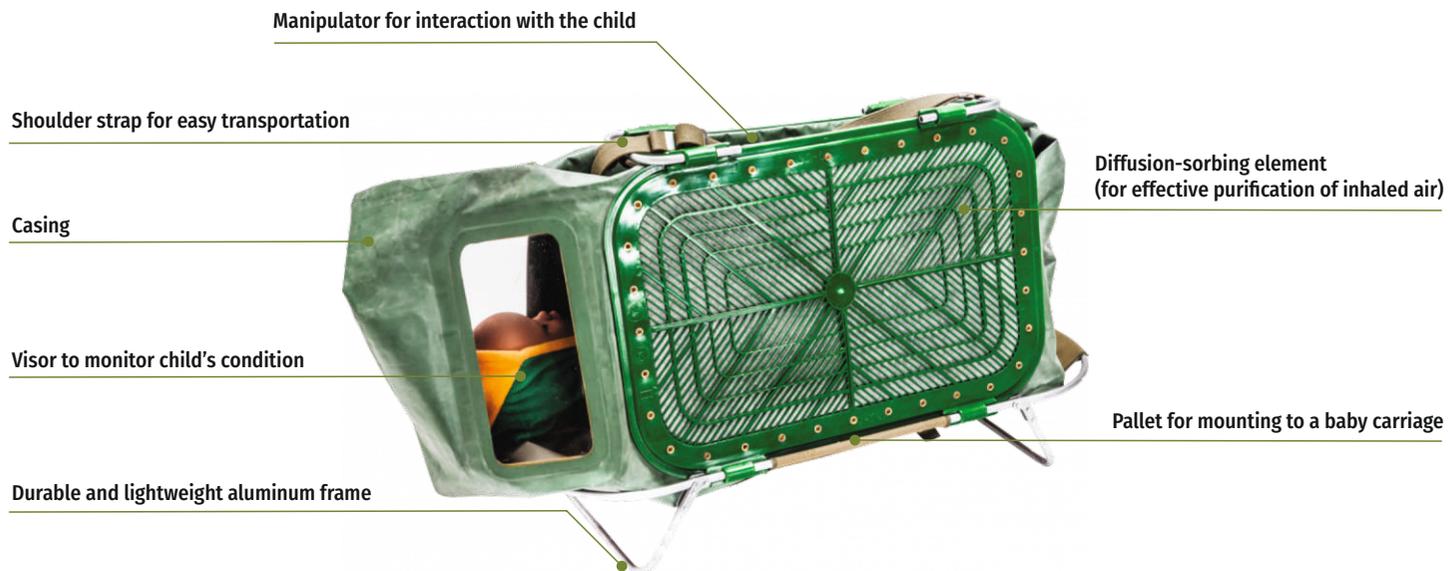
PROTECTIVE CHAMBER FOR CHILDREN KZD-6

Purpose

Protective chamber KZD-6 is designed to protect children under the age of 1,5 years old from toxic substances of the probable enemy, radioactive dust and bacterial agents at the temperature from - 30 to + 35 °C.

Principle of operation

Air necessary for breathing enters the chamber through the diffusion-sorbing elements, which provide purification of the inhaled air. Exhaled carbon dioxide is removed through the same elements outside. Oxygen supply and removal of carbon dioxide are carried out due to the difference in their concentrations inside and outside the chamber.



Technical characteristics

Name of indicator	Value of indicator
Weight of the set, g	Not more than 5000
Overall dimensions, mm	1120x430x490
Operating temperature range, °C	from -30 to +35
Shelf life, years	10

Civil respiratory personal protective equipment

SELF-RESCUER FOR KIDS GDZK D-1.5

Purpose

Self-rescuer for kids GDZK D-1.5 is designed for evacuation during a fire in hotels, high-rise buildings, hospitals, etc. for children up to 1.5 years old. It provides protection against carbon monoxide, toxic combustion products, vapors, gases and particles, emergency chemically dangerous substances, radioactive dust. The kit includes: jumpsuit, power supply system, air supply assembly, special combined filter, mattress, package, bag and user manual.



Temperature range	Breakthrough time
0 - +60°C	300 sec
+ 200°C	60 sec
Open flame +850°C	5 sec

Technical characteristics

Name of indicator	Value of indicator
Weight of self-rescuer, no more than, g	3000
Continuous operation time (without battery replacement), hours	6
Time of continuous stay of the child inside, at least, hours	5 (from -10 to + 26 ° C)
Temperature range of application for protection against hazardous chemicals, ° C	from -40 to +60
Temperature range of application for protection against CO and combustion products, ° C	from 0 to +60
Resistance to constant air flow	absent (forced air supply)
The required oxygen content in the air, %, more than	18
Shelf life, years	5



MILITARY RESPIRATORY PERSONAL PROTECTIVE EQUIPMENT

Enterprises of Zelinsky Group have got high-tech equipment and unique experience gained over decades of fruitful activity for the production of gas masks for military purposes, as well as components to them. We are suppliers of a new generation of respiratory protective equipment for the needs of special units of national security, defence and law enforcement agencies.

GAS MASK PMK-S

Purpose

Gas mask PMK-S protects from nerve and blister agents, systemic poison, radioactive dust, biological aerosols, iodine radioactive isotopes and its organic compounds, etc. The set includes a facepiece, a filter and a bag made from cotton material.



The advantages of PMK-S gas mask:

- Available in 3 sizes
- Has a 6-point head harness
- Compatible with up-to-date optical and optomechanical weapons
- Has a flexible polymer glass
- A filter can be fixed on both sides
- Low weight facepiece
- Availability of communication device
- Can be used at temperature from -40 to +40 ° C

The low-profile design of the **facepiece MS-12** allows combining it with shock-proof helmets, bulletproof vests and earphones. Flexible polymer glass provides a minimum level of distortion and allows the use of optical devices.

Technical characteristics

Name of indicator	Value of indicator
Breathing resistance to constant air flow during inhalation at a flow rate of 30 dm ³ /min, no more than, mm Wg	
- With 1 filter	18
- With 2 filters	10
Speech intelligibility, %, not less than	96
Dimensions, mm	280x210x100
Weight, no more than, g	900
Shelf life, years	10

FILTERING ABSORBING BOX GP-9KB-OPTIM

Purpose

The filter GP-9kB-Optim is used as a part of gas masks for protection against vapors, gases and particles of toxic and chemically dangerous substances. It provides protection not only from chemically hazardous substances (including chlorine and ammonia), but also from mercury vapor.



- Round thread (40*4 mm)
- The housing is made of composite material
- Weight is not more than 290 g

Technical characteristics

Name of indicator	Value of indicator
Oil mist filter permeability coefficient, %, no more than	2.0*10 ⁻⁴
Initial resistance to constant air flow, no more than	
- 30 dm ³ /min	160
- 95 dm ³ /min	600
Breakthrough time, min, no less than	
- ammonia at a concentration of 0.7 mg/dm ³	80
- hydrogen sulfide at a concentration of 1.4 mg/dm ³	80
- sulfur dioxide at a concentration of 2.7 mg/dm ³	30
- hydrogen cyanide at a concentration of 1.1 mg/dm ³	30
- chlorine at a concentration of 3.0 mg/dm ³	80
- cyanogen chloride at a concentration of 5.0 mg/dm ³	18
- cyclohexane at a concentration of 3.5 mg/dm ³	70
- mercury vapor at a concentration of 13.0 mg/dm ³	6000





SELF-RESCUERS (EMERGENCY ESCAPE BREATHING DEVICES)

Self-rescuers are the emergency means of individual protection of respiratory organs, eyes and head from the effects of toxic combustion products during an emergency evacuation of people from the production, administrative and residential buildings during fire and other man-made emergencies. Self-rescuers are divided into filtering and isolating.

FILTERING SELF-RESCUER SR-4

Purpose

Mine filtering self-rescuer SR-4 is an individual device for protection of respiratory system from harmful effects of carbon monoxide and particles (dust, smoke, soot). It is used during fires for safe exit of miners on a fresh air stream, on a surface, or to points switching to backup self-rescuers. It is a single-use device.



Conditions of use

The content of free oxygen is not less than

17%
by volume

Carbon monoxide concentration is not more than

1%
by volume

Temperature is not less than

0°C

Technical characteristics

Name of indicator	Value of indicator
Breakthrough time on carbon monoxide at a concentration of 6.2 mg / dm ³ , min, no less than	120
Breathing resistance to constant air flow at a flow rate of 30 dm ³ /min, no more than, Pa	
- when inhaling	294
- when exhaling	127
Overall dimensions in a case, mm	135x85x130
Set weight, g, no more than	1100
Shelf life, years	3

FILTERING SELF-RESCUER ZEVS-15 (ZEVS-U)

Purpose

ZEVS-15 (ZEVS-U) is a filtering device with hood for escape from fire. It is intended for protection of respiratory system, eyes, head of adults and children over 12 years old from toxic combustion products including carbon monoxide, other hazardous chemical substances and particles like fume, dust and mist emitted in case of fire and other man-made emergencies.

ZEVS-15 (ZEVS-U) is a single use device for evacuation during fires in hotels, residential and administrative buildings, hospitals, crowded buildings and other similar facilities.



Conditions of use

The content of free oxygen is not less than
17 %
by vol.

The ambient temperature
+60°C
0°C

Technical characteristics

Name of indicator	allowed value	actual value by certification tests
Breathing resistance to constant air flow at a flow rate of 95 dm ³ /min, no more than, Pa - when inhaling - when exhaling	800 300	380 110
Penetration coefficient of the filter according to test-aerosol (sodium chloride) when volume flow rate is 95 dm ³ /min, %, no more than	6	0,29
Carbon dioxide concentration in inhaled air, %, no more than	2,0	0,55
Weight without bag, g, no more than	1000	620

SELF-CONTAINED FIRE SELF-RESCUER SIP-1M



Purpose

The device is used to protect the respiratory system, eyes, skin against toxic substances and combustion gases during evacuation from burning premise or at other emergency situations when the air becomes irrespirable. SIP-1M is intended for use by people over 12 years old or with the neck size more than 3 dm. It can be used by people having beard, long hair and big hairdo.

- Emergency protection in unsuitable for breathing environment
- One universal size of the hood
- Self-rescuer with chemically bonded oxygen
- Single use device

Technical characteristics

Name of indicator	Value of indicator
Breakthrough time, no less than, min: - in medium physical activity - waiting for help	20 60
Working temperature range	t -35 to 60°C (at relative air humidity up to 100% at the temperature +35°C)
Breathing resistance to constant air flow during inhalation or exhalation at a flow rate of 35 dm ³ /min, no more than, Pa	800
Protection coefficient, no less than	2x10 ³
Weight, no more than, kg	1,2
Donning time, sec, no more than	15
Dimensions, mm, in a box	206x154x133
Shelf life, years	5



GASES AND HARMFUL VAPORS ABSORBERS FOR RESPIRATORY PROTECTIVE EQUIPMENT

For 80 years manufacturing areas of Zelinsky Group have been producing gases and harmful vapors absorbers intended for both personal and collective respiratory protective equipment. Today we are the largest manufacturer of these types of products in the Russian Federation. A developed scientific and technical base allows us to design and modify absorbers in accordance with the customer requirements.

Gases and harmful vapors absorbers for respiratory protective equipment

GASES AND HARMFUL VAPORS ABSORBERS

Purpose

Gases and harmful vapors absorbers are intended for personal and collective respiratory protective equipment.

Chemical absorbers are manufactured based on activated carbon with the modifying inorganic additives applied to their surface. Below you can find the currently produced types of absorbers with the indication of the class of harmful substances.

PG-ABE



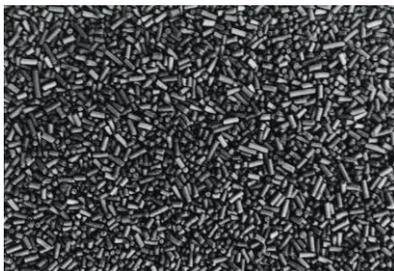
ABEK



PKG-S



KUPRAMIT



HPR



HOPCALITE



- A** Organic gases and vapors (with a boiling point >65°C)
- B** Inorganic vapors
- E** Acid gases
- K** Ammonia and its derivatives
- CO** Carbon monoxide
- Hg** Mercury vapor

SX Special substances



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