



Your
Standard
of Safe
Breathing



Your Standard of Safe Breathing

Research and Production Enterprise Standart as a part of Standart Industrial Group is a leading Ukrainian respiratory protective equipment (RPE) and filtering materials developer and manufacturer.

For over 25 years, Standart has been supplying its products for Ukrainian industrial enterprises.

Research and Production Enterprise Standart manufactures the following products and brands:

- ELEFLEN filtering polypropylene material;
- iMASK filtering half masks;
- iMASK PRO filtering half masks;
- iMASK BLACK filtering half masks;
- iMASK MEDICINE medical filtering half masks;
- STANDART filtering half masks;
- STANDART medical filtering half masks;
- STANDART medical masks;
- RESPY filtering half masks;
- RESPY PRO filtering half masks;
- CARBON PRO filtering half masks;
- RPA-TD respirators with replaceable filters;
- RPA-DE half masks with replaceable filters;
- Replaceable filters for RPA half masks:
 - FRPA P2 particle filters,
 - FRPA-G gas filters,
 - FRPA-C combined filters.

The Quality Management System of Research and Production Enterprise Standart is ДСТУ ISO 9001:2015 certified. The Company cooperates with the test laboratory certified with the National Accreditation Agency of Ukraine (NAAU) as per ДСТУ ISO/IEC 17025:2017.

The products are certified for compliance with the European Union Personal Protective Equipment Regulation 2016/425. Based on test results, the EU-type certificates are obtained.

Research and Production Enterprise Standart produces ELEFLEN polypropylene filtering material with a patented innovative technology.

ELEFLEN advantages:

- Applied electrostatic charge
- High protective properties
- Able to trap under 1 μm particles
- Low resistance to air flow
- No deterioration of properties in a wide temperature range from -30 °C to +70 °C
- Environment-friendly
- High mechanical strength
- Resistance to acids and alkali
- No harmful substances emission when heated up to 140 °C





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Production

Research and Production Enterprise Standart has a full-cycle production, which allows monitoring product quality at all production stages:

- manufacturing special polypropylene grades filtering material by forming ultrafine fibers with unique in-house equipment;
- manufacturing all necessary component parts;
- assembling half masks using unique technology with ultrasonic welding on an unrivalled in-house equipment;
- manufacturing gas filters using highly effective sorbents;
- automatically manufacturing high dust capacity aerosol filters.





Highly qualified professionals are the key asset of Research and Production Enterprise Standart. R&D engineers who have been studying global trends in high efficiency filtering materials and respiratory protection are of critical importance. The creative team includes four PhDs (Engineering).

The Company has own patents – half masks and filtering materials manufacturing method is patented as an invention. Product appearance and trademarks are patented.



iMASK™



FILTERING HALF MASKS

iMASK™

Premium quality and guaranteed safety

Polyurethane nose pad provides.
tighter fit of the half mask to the face.
Prevents the eyewear from fogging. Does not irritate the skin.

Low breathing resistance.
Effective filtration due to the use of ELEFLEN™ hypoallergenic filter material.

Innovative design.
3-panel flat-folding design does not restrict mimic movements, provides comfort when wearing and is easy-to-store.

Large filtering surface,
stiffness, and exhalation valve make breathing more comfortable in hot work areas.



Hidden nose clip
made from food-grade aluminum inside the half mask is adapted to any nose shape.

Ultrasonic welded stiffeners
minimize the possibility of half mask adhesion.

Uniform straps tension
relieves neck, face, and head stress; availability of length adjusters provides secure half mask fit to the face.







Exhalation valve
Removes hot and wet exhaled air, prevents condensation, and lowers the temperature under the half mask.

Curved "tongue"
provides easy half mask fitting on the face.

FILTERING HALF MASKS iMASK™

ADVANTAGES

- Deep facial placement ensures perfect fit, minimizing unfiltered air ingress under the half mask.
- Easy to fold, fits in overalls' pockets. Fits most people with different anthropometric parameters.
- Requires no facial adjustment skills when putting on.
- Comfortable and low breathing resistance due to the use of ELEFLEN™ filtering material.
- Stepped exhalation valve allows comfortable breathing.

Picture	Model	Certification: ДСТУ EN 149:2017	Nominal protection factor (up to MPC)	Purpose
	iMASK-1 FFP1 NR D	FFP1 (low efficiency)	4	Respiratory protection against mineral, organic (animal and vegetable), synthetic and other industrial dusts.
	iMASK-1V FFP1 NR D			
	iMASK-2 FFP2 NR D	FFP2 (medium efficiency)	12	Respiratory protection against organic and inorganic substances' fumes and mists (soot, welding fumes, or oil mist). Also used to protect against Mycobacterium tuberculosis, influenza viruses, and other airborne infections.
	iMASK-2V FFP2 NR D			
	iMASK-3 FFP3 NR D	FFP3 (high efficiency)	50	Respiratory protection against radioactive, biological, and toxic aerosols. Also used to protect against Mycobacterium tuberculosis, influenza viruses, and other airborne infections.
	iMASK-3V FFP3 NR D			

FILTERING HALF MASKS iMASK™ BLACK



Certification:
ДСТУ EN 149:2017
EN 149:2001+A1:2009
TP TC 019/2011



Half masks color identification:

FFP1 - GREEN **FFP2 - BLUE** **FFP3 - RED**

NR - non-reusable (single shift use only)
D - dusting resistant

FILTERING HALF MASKS iMASK™ PRO-V

ADVANTAGES

- The carbon fiber allows filtering off organic and inorganic vapors (e.g., ozone) within Maximum Permissible Concentrations (MPC).
- Due to ELEFLEN's antibacterial properties, the half mask can be reused without disinfecting between uses.
- Robust frame is resistant to deformation and has an external surface that minimizes adverse effects of welding.
- The half mask easily fits under a welding shield.

Model	Certification: ДСТУ EN 149:2017	Nominal protection factor (up to MPC)	Purpose
iMASK PRO-V FFP2 R D	FFP2 (medium efficiency)	12	Protection against solid and liquid aerosols (welding fumes, mist), solvent vapors, petrol, lacquers, and ozone
iMASK PRO-V FFP3 R D	FFP3 (high efficiency)	50	Protection against radioactive and biological toxic aerosols and radioactive iodine

R - reusable
D - dusting resistant



Certification: ДСТУ EN 140:2017



022

ODOR PROTECTION

STANDART™



FILTERING HALF MASKS STANDART™

Innovative design.

Ergonomic filtering face piece.
Large filtering surface area (240 cm²).
High performance ELEFLEN material ensures low breathing resistance.

Soft nose pad

resists repetitive bending and does not exert pressure on nose bridge during prolonged use.

Elastic seal design

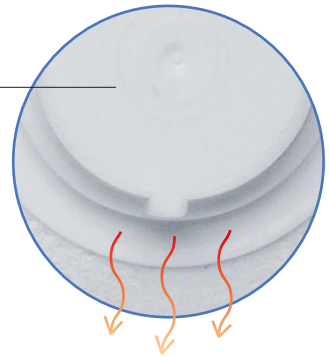
follows facial mimic movements and ensures reliable protection during use.

Strangulator

ensures tight fit of the mask to the face and prevents unfiltered air ingress.

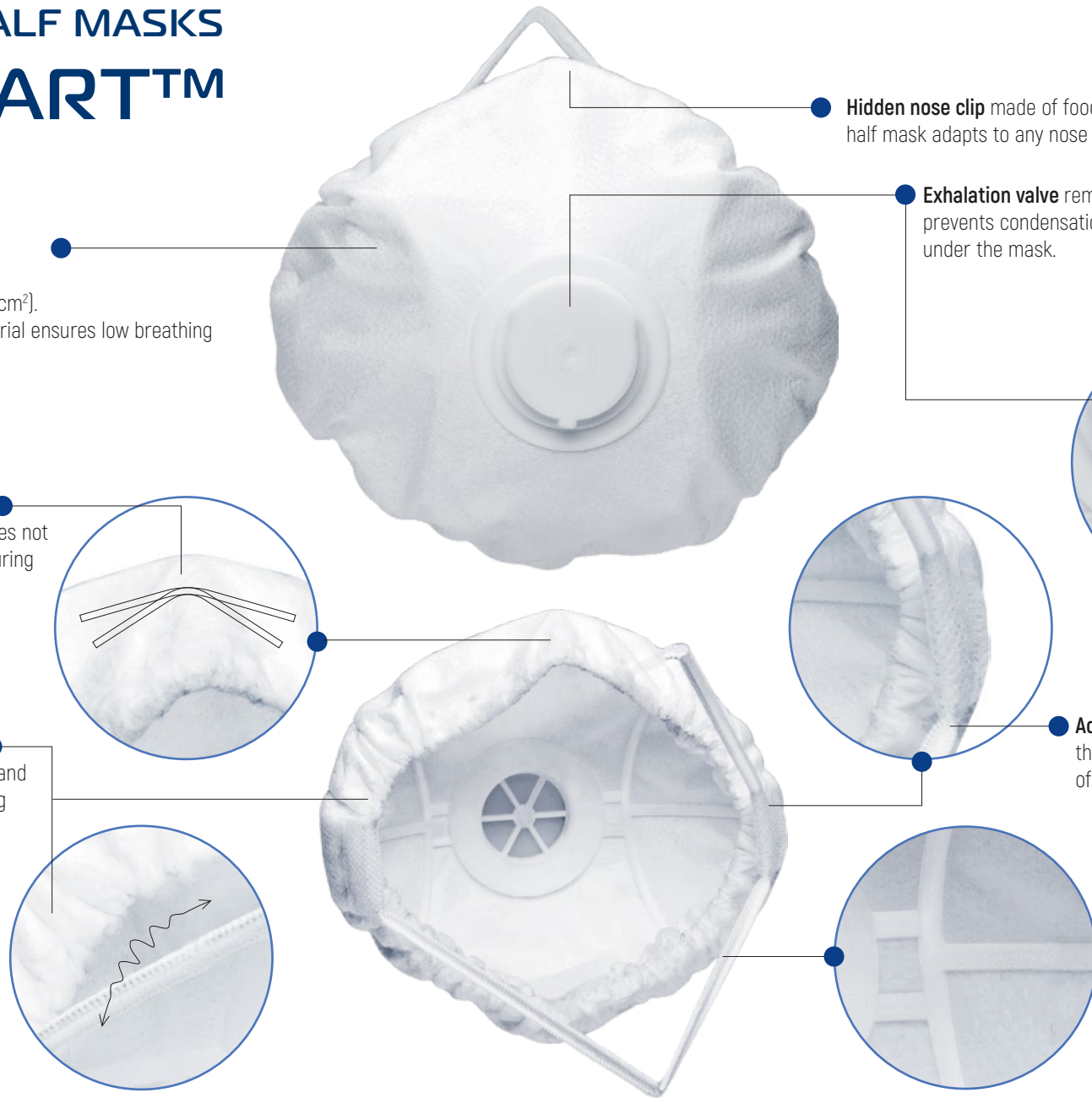
● **Hidden nose clip** made of food-grade aluminum inside the half mask adapts to any nose shape.

● **Exhalation valve** removes hot and wet exhaled air, prevents condensation, and lowers the temperature under the mask.



● **Adjustable straps** hold the mask on the head and prevent pressure in case of prolonged use.

● **Ergonomic plastic brace** supports half mask shape during the use.









STANDART™ FILTERING HALF MASKS

ADVANTAGES

- Universal size – half mask fits any face size and type due to elastic cord around the mask seal.
- Secure fit to the face prevents unfiltered air ingress.
- ELEFLEN, a soft environment-friendly hypoallergenic material, does not irritate the skin.
- Minimal field of view reduction – no more than 12%.
- Heat resistance – up to +70 °C. Flame resistant. Withstands low temperatures – down to -30 °C.
- Ultrasonic welding of all parts.
- Excellent compatibility with other personal protective equipment (goggles, helmets).



Picture	Model	ДСТУ EN 149:2017 classification	Nominal protection factor (up to MPC)	Purpose
	STANDART 103 FFP1 NR D	FFP1 (low efficiency)	4	Respiratory protection against mineral, organic (animal and vegetable), synthetic and other industrial dusts.
	STANDART 113 FFP1 NR D			
	STANDART 203 FFP2 NR D	FFP2 (medium efficiency)	12	Respiratory protection against fumes and mists of organic and inorganic substances (soot, welding fumes, oil mist). Also used to protect against Mycobacterium tuberculosis, influenza viruses and other airborne infections.
	STANDART 213 FFP2 NR D			
	STANDART 303 FFP3 NR D	FFP3 (high efficiency)	50	Respiratory protection from radioactive, biological and toxic aerosols. Also used to protect against Mycobacterium tuberculosis, influenza viruses and other airborne infections.
	STANDART 313 FFP3 NR D			

Certification:
EN 149:2001-A1:2009
ДСТУ EN 149:2017
TP TC 019/2011









NR - non-reusable (single shift use only)
D - dusting resistant

CARBON PRO™ FILTERING HALF MASKS

ADVANTAGES

- Carbon fiber allows filtering organic and inorganic (e.g. ozone) vapors at concentrations within the MPC.
- Due to ELEFLEN's antibacterial properties, the half mask can be used repeatedly without disinfecting between uses.
- Robust frame is resistant to deformation and has an external surface that minimizes adverse effects of welding.
- The half mask easily fits under a welding shield.



Picture	Model	ДСТУ EN 149:2017 classification	Nominal protection factor (up to MPC)	Purpose
	Carbon Pro FFP1 R D	FFP1 (low efficiency)	4	Protection against solid aerosols and organic vapors (petrol, solvents, lacquers within the MPC).
	Carbon Pro-V FFP1 R D			
	Carbon Pro FFP2 R D	FFP2 (medium efficiency)	12	Protection against solid and liquid aerosols (welding fumes, mist), solvent vapors, petrol, lacquers, and ozone.
	Carbon Pro-V FFP2 R D			
	Carbon Pro FFP3 R D	FFP3 (high efficiency)	50	Protection against radioactive and biological toxic aerosols and radioactive iodine.
	Carbon Pro-V FFP3 R D			

Certification:
ДСТУ EN 149:2017



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ODOR PROTECTION

R - reusable
D - dusting resistant

RESPY™



FILTERING HALF MASKS

RESPY™

The straps

are flexible and durable elastic bands with adjustable length.

The ELEFLEN filtering material ensures maximum breathability.

Hypoallergenic material does not irritate the face or cause discomfort in use.

Ergonomic shape combined with soft materials ensures tight fit to the face.

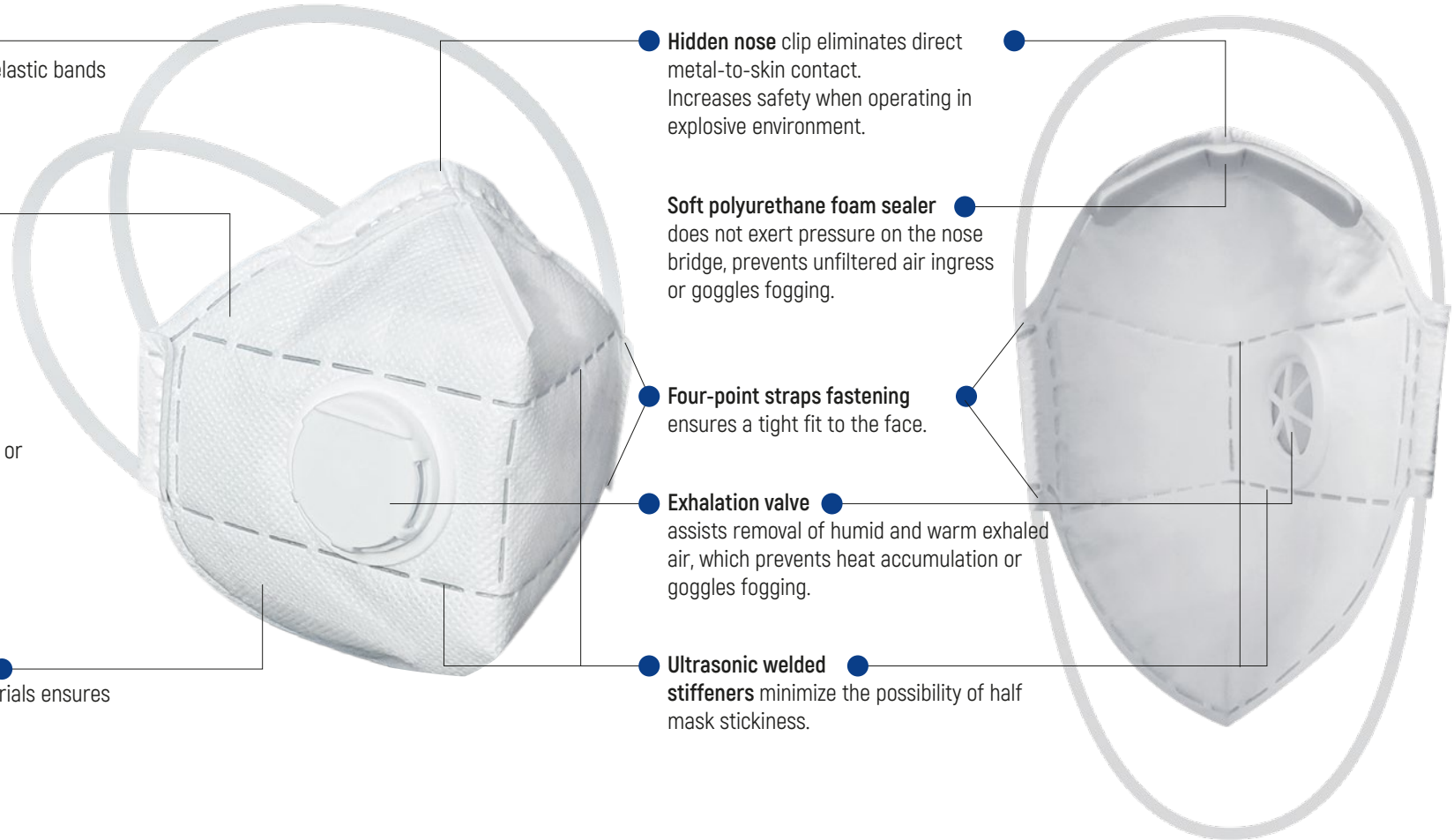
Hidden nose clip eliminates direct metal-to-skin contact. Increases safety when operating in explosive environment.

Soft polyurethane foam sealer does not exert pressure on the nose bridge, prevents unfiltered air ingress or goggles fogging.

Four-point straps fastening ensures a tight fit to the face.

Exhalation valve assists removal of humid and warm exhaled air, which prevents heat accumulation or goggles fogging.

Ultrasonic welded stiffeners minimize the possibility of half mask stickiness.



RESPY™ FILTERING HALF MASKS

ADVANTAGES

- Deep facial placement creates a perfect fit, minimizing unfiltered air ingress under the half mask.
- Easy to fold, fits in overalls' pockets.
- Fits most people with different anthropometric parameters.
- Requires no facial adjustment skills when putting on.
- Comfortable and low breathing resistance due to ELEFLEN filtering material.
- Stepped exhalation valve allows comfortable breathing.

Picture	Model	ДСТУ EN 149:2017 classification	Rated protection factor (up to MPC)	Purpose
	RESPY 102 FFP1 NR D	FFP1 (low efficiency)	4	Respiratory protection against mineral, organic (animal and vegetable), synthetic and other industrial dusts.
	RESPY 112 FFP1 NR D			
	RESPY 202 FFP2 NR D	FFP2 (medium efficiency)	12	Respiratory protection against smokes and mists of organic and inorganic substances (soot, welding smoke, oil mist). Also used to protect against Mycobacterium tuberculosis, influenza viruses and other airborne infections.
	RESPY 212 FFP2 NR D			
	RESPY 302 FFP3 NR D	FFP3 (high efficiency)	50	Respiratory protection from radioactive, biological and toxic aerosols. Also used to protect against Mycobacterium tuberculosis, influenza viruses and other airborne infections.
	RESPY 312 FFP3 NR D			

Certification:
EN 149:2001+A1:2009
ДСТУ EN 149:2017
TP TC 019/2011





NR - non-reusable (single shift use only)
D - dusting resistant



RESPY™ PRO-V FILTERING HALF MASKS

ADVANTAGES

- The carbon fiber allows filtering off organic and inorganic vapors (e.g., ozone) within Maximum Permissible Concentrations (MPC).
- Due to ELEFLEN's antibacterial properties, the half mask can be used repeatedly without disinfecting between uses.
- Robust frame is resistant to deformation and has an external surface that minimizes adverse effects of welding.
- The half mask easily fits under a welding shield.

Picture	Model	ДСТУ EN 149:2017 classification	Nominal protection factor (up to MPC)	Purpose
	RESPY PRO-V FFP2 R D	FFP2 (medium efficiency)	12	Protection against solid and liquid aerosols (welding fumes, mist), solvent vapors, petrol, lacquers, and ozone.
	RESPY PRO-V FFP3 R D	FFP3 (high efficiency)	50	Protection against radioactive and biological toxic aerosols and radioactive iodine.



R - reusable
D - dusting resistant

ODOR PROTECTION

Certification:
ДСТУ EN 149:2017



RPA-DE™



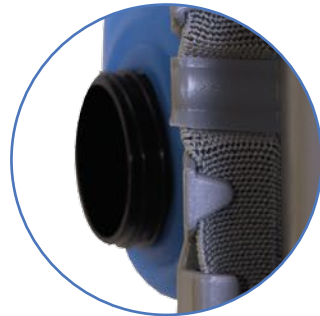
HALF MASKS

RPA-DE™

Soft textile straps with comfortable adjustment.

Ergonomic design, large viewing angle.

Good compatibility with other PPE (goggles, face shields, helmets).



Threaded fixture allows quick filter change and secure fixation.



High-performance exhalation valve promotes rapid removal of hot and wet exhaled air under the half mask. Exhalation valve is protected against dust and dirt ingress.

Tight fit to any type of face. Well-balanced.

Hypoallergenic material does not cause facial irritation.



Adjustment buckle concealed by soft fabric does not irritate the neck skin.

RPA-DE™ HALF MASKS



The RPA-DE half mask with two FRPA P2 particle filters is used in severe production environments at high/low temperatures, high humidity, and in prolonged heavy-duty operations with a working air dust content of up to 1,000 mg/m³.



The RPA-DE half mask with FRPA-G gas filters is designed to clean air from vapor and gaseous harmful substances.

FRPA-G gas filters are used at up to 0.1% volume gas (vapor) concentrations (1,000 ppm).



The RPA-DE half mask with combined FRPA-C filters is designed to clean air from vapor and gaseous harmful substances and aerosols.

The RPA-DE half mask with combined FRPA-C filters is designed to clean air from vapor and gaseous harmful substances and aerosols.



Operating temperature: from -30 °C to +70 °C, flame resistant.

RPA-DE half mask size: universal 2/3 (medium/large).

Certification:
 DSTY EN 140:2004/Amendment 1:2015
 EN 140:1998/AC:1999
 TP TC 019/2011



RPA-TD™



RESPIRATOR RPA-TD™

Rubber-fabric straps ensure secure hold on the head.

Tight fit to the face and prevention of unfiltered air ingress.

Filter cover louvers prevent direct dust flow.

High filtration level – a 500 cm² filter.

Quick filter change without replacing the plastic casing.

High performance exhalation valve is protected from mechanical damage.

- Operating temperature: from -30 °C to +70 °C, ignition resistant.
- Filter casing material does not cause sparking.
- Ensures comfortable working conditions during prolonged use.
- Well-balanced. Low weight.
- Three sizes available: 1 (small), 2 (medium), 3 (large).

Certification:
DCTY EN 143:2004
DCTY EN 140:2004/Amendment No.1:2015
EN140:1998/AC:1999
TP TC 019/2011



Minimal field of view reduction.

Rubber half mask of the RPA-TD respirator is resistant to multiple sanitary treatments (washes) and may be used for a long time.



The range of RPA-TD respirators



RPA-TD-1 respirator is recommended for prolonged medium-duty work and when the working air dust content is up to 500 mg/m³.



RPA-TD-2 respirator is recommended for heavy intensive work and high air dustiness of up to 1,000 mg/m³, high or low temperatures, and high humidity.

FRPA P2 R PARTICLE FILTERS



- The FRPA P2 particle filter complies with the P2 efficiency.
- Nominal protection factor - 12.
- Dusting resistant.
- Made of ELEFLEN non-woven filtering material.
- Ensures ultra-low breathing resistance.
- Filter area is 500 cm², the filter has concentric folds (corrugations).
- Filter structure ensures stable filtering efficiency for a long period of time.
- Capable of regeneration by shaking or tapping the filter body without removing it from the half mask.
- Resistant to high (up to +70 °C) and low (down to -30 °C) temperatures.



The FRPA P2 R filter is placed in a plastic casing

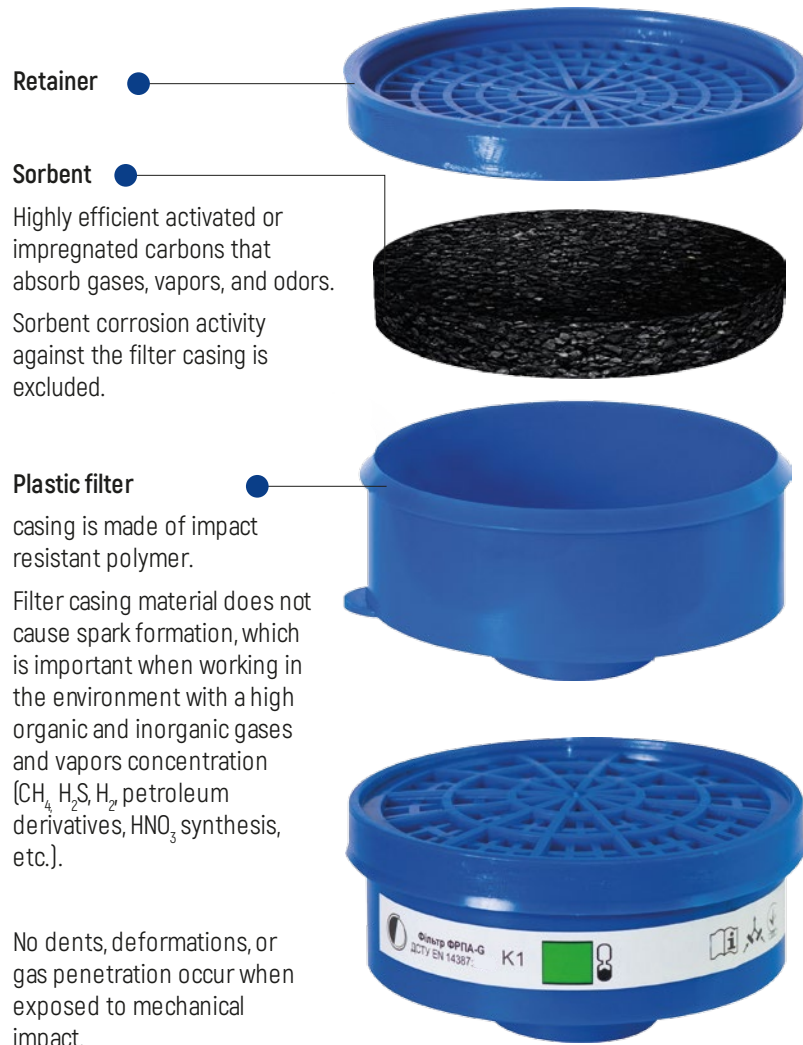


Filter casing is impact resistant, mechanical impact does not cause dents

Certification:
ДСТУ EN 143:2002
ДСТУ EN 143:2002/Amendment No.1:2015
ДСТУ EN 143:2002/Revision No.1:2015
EN 143:2000/A1:2006
TP TC 019/2011



FRPA-G GAS FILTERS



FRPA-G A1 filter

Purpose: Cleaning (by adsorption) inhaled air from vapors of organic substances with a boiling point of over 60 °C (gasoline, kerosene, toluene, ethyl chlorohydrin, carbon disulfide, alcohols, ketones, benzene, and its homologues, nitro- and amino compounds, ethers, and more).

Scope: All types of painting or varnishing in mechanical engineering and shipbuilding; production and use of dyes, varnishes, adhesives, and resins, handling petroleum products, agriculture, hospitals.



FRPA-G E1 filter

Purpose: Cleaning (by chemical sorption) inhaled air from acidic gases and acid vapors (sulfur dioxide; hydrochloric, sulfuric, nitric, and acetic acids; carbon chloride, bromide, and fluoride).

Scope: Chemical production using acids, electrolytic processes, acid etching, metal engraving, agricultural chemistry.



FRPA-G K1 filter

Purpose: Cleaning (by chemical sorption) air from ammonia and its organic derivatives.

Scope: Ammonia production, refrigeration plant maintenance, agricultural chemistry.



FRPA-G ABEK1 filter

Purpose: Cleaning (by adsorption or chemical sorption) inhaled air from vapors of organic substances with a boiling point of over 60 °C, inorganic gases (chlorine, fluorine, bromine, sulfur hydride, etc. except for CO carbon monoxide), acidic gases and acid vapors, ammonia and its organic derivatives, and aerosols.

Scope: All types of work in the production of dyes, adhesives, resins, or paints. Spray painting. Electrolysis production, acid cleaning, metals etching and engraving, emergency response.

Certification:
DCTY EN 14387:2017



FRPA-C COMBINED FILTERS

Removable cover ●
for attaching the pre-filter.

The pre-filter consists of ELEFLEN non-woven filtering material.

Retainer ●

Sorbent - ●
Highly efficient activated or impregnated carbons that absorb gases, vapors, and odors. Sorbent corrosion activity against the filter casing is excluded. Filter design allows full usage of the sorbent's absorption capacity by replacing removable dust-clogged pre-filter.

Casing ●
Plastic filter casing is made of impact resistant polymer.

- No dents, deformations, or gas penetration occur when exposed to mechanical impact.
- Filter casing material does not cause spark formation, which is important when working in the environment with a high organic and inorganic gases and vapors concentration (CH₄, H₂S, H₂, petroleum derivatives, HNO₃ synthesis, etc.).
- All the filter parts are made of polymer material which allows their easy recycling.



FRPA-C A1P1 filter

Purpose: Cleaning (by adsorption) inhaled air from vapors of organic substances with a boiling point of over 60 °C (gasoline, kerosene, toluene, ethyl chlorohydrin, carbon disulfide, alcohols, ketones, benzene and its homologues, nitro- and amino compounds, ethers, etc.) including organic solvent-based paint aerosols.

Scope: All types of painting or varnishing in mechanical engineering and shipbuilding; production and use of dyes, varnishes, adhesives, and resins, handling petroleum products, agriculture, hospitals.



FRPA-C E1P1 filter

Purpose: Cleaning (by chemical sorption) inhaled air from acidic gases and acid vapors (sulfur dioxide; hydrochloric, sulfuric, nitric, and acetic acids; carbon chloride, bromide, and fluoride).

Scope: Chemical production using acids, electrolytic processes, acid etching, metal engraving, agricultural chemistry.



FRPA-C K1P1 filter

Purpose: Cleaning (by chemical sorption) air from ammonia and its organic derivatives.

Scope: Ammonia production, refrigeration plant maintenance, agricultural chemistry.



FRPA-C ABEK1P1 filter

Purpose: Cleaning (by adsorption or chemical sorption) inhaled air from vapors of organic substances with a boiling point of over 60 °C, inorganic gases (chlorine, fluorine, bromine, sulfur hydride, etc. except for CO carbon monoxide), acidic gases and acid vapors, ammonia and its organic derivatives, and aerosols.

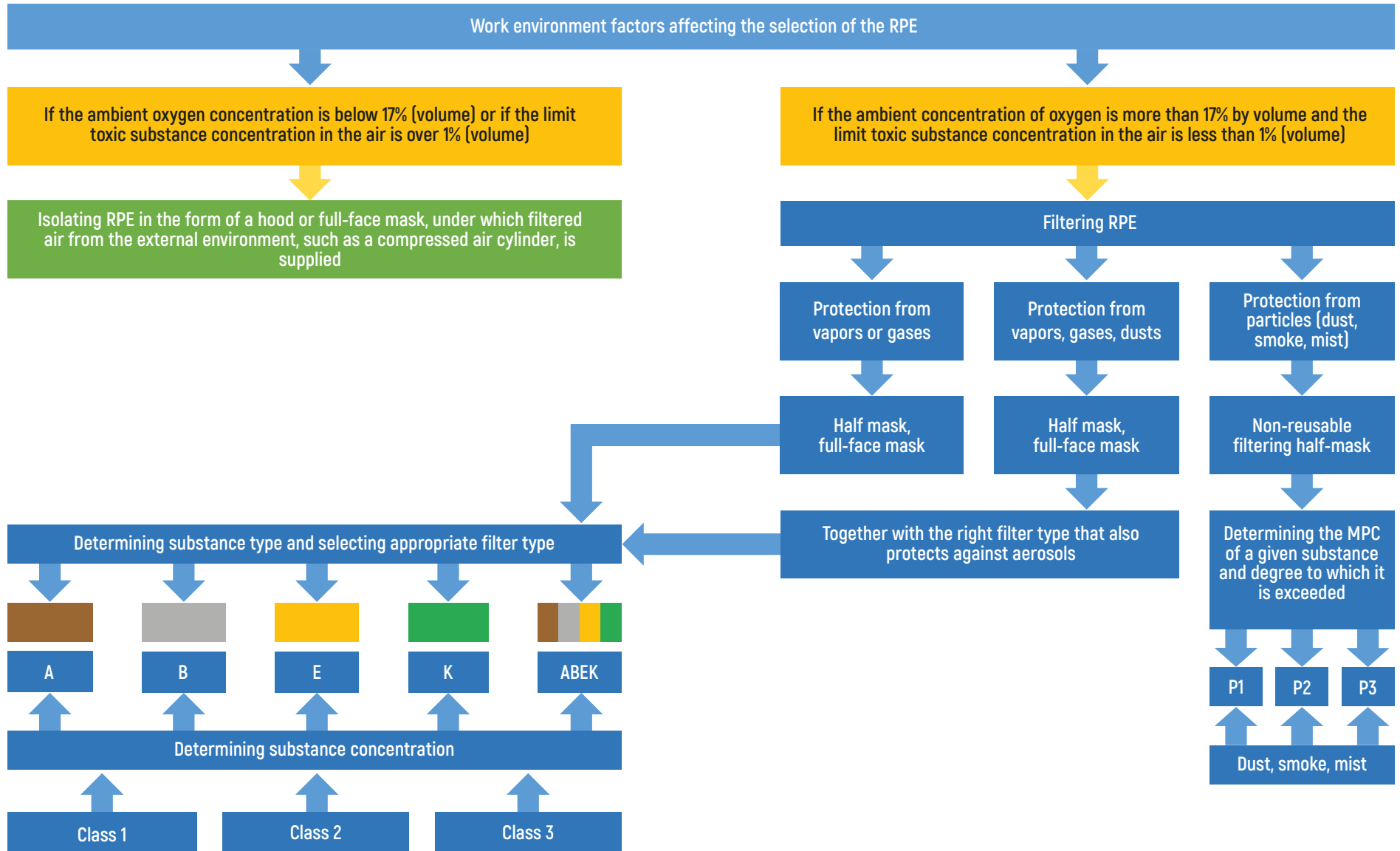
Scope: All types of work in the production of dyes, adhesives, resins, or paints. Spray painting. Electrolysis production, acid cleaning, metals etching and engraving, emergency response.

Certification:
ДСТУ EN 14387:2017



GUIDELINES FOR SELECTING PERSONAL RESPIRATORY PROTECTIVE EQUIPMENT

The respiratory system is one of the most important components of the body. Its main function is to deliver oxygen to the lungs, transfer it to the blood, and remove carbon dioxide – a product of metabolism. In addition, the upper airways filter the air so that it enters the lungs in the cleanest form.



RECOMMENDATIONS FOR SELECTING A FILTERING HALF MASK*

SCOPE		iMASK, Standart, RESPY			iMASK PRO-V, CARBON PRO, RESPY PRO-V		
		FFP1	FFP2	FFP3	FFP1	FFP2	FFP3
Construction	Rough stone working, concrete spraying	●					
	Preparing cement mortar, sputtering, plastering	●					
	Demolition of structures	●					
	Earthwork, pile driving, foundation work		●				
	Foam, roof insulation		●				
Metalworking, foundry	Soldering		●				
	Finishing, grooving, drilling, riveting, machining		●				
	Oxygen-acetylene cutting		●				
	Handling molten metals, melting		●				
Mining	Tunneling, drilling, crushing, excavating		●				
	Dredging, washing, pumping		●				
	Cutting, sawing		●				
	Filter element replacement		●				
Cutting, drilling, skinning	Rust, base metals, fillers, concrete, stone	●					
	Cement, wood, steel	●					
	Stainless steel, antifouling coatings	●		●			
	Rubber, reinforced carbon, and fiberglass		●	●			
Cleaning and waste disposal	Waste disposal		●	●			
	Asbestos works			●			
Agriculture and forestry	Interaction with infected animals, screening		●	●			
	Feeding livestock, cleaning facilities for harvesters	●	●				
	Harvesting, straw shredding, composting		●				
	Spraying the crop with pesticides and insecticides		●	●			
Biohazardous substances and allergens	Pollen, animal dander	●					
	Molds, fungi, bacteria, viruses		●	●			
	Tuberculosis			●			
Other areas	Exhaust fumes, smoke		●			●	●
	Inks, dyes, solvents, chemical reagents	●	●			●	●
	Powdered additives and chemical reagents		●	●			
	Pharmaceutical industry		●	●			
	Medicine		●	●			
	Cosmetology	●	●			●	●
	Plastics processing and rubber applications		●	●			
	Pottery, ceramics		●	●			
	Wood and paper mills		●				
	Surface machining		●		●		
	Painting and varnishing, handling chemicals and petroleum products				●	●	
	Electric arc welding, oxy-fuel cutting, plasma welding and cutting					●	
	Biochemical laboratories			●			●
	Nuclear power plants			●			●
Emergencies						●	

* The above recommendations give an approximate idea of which products may be suitable for use in standard applications and shall not be used as the only option in the personal respiratory protective equipment (RPE) selection. The decision to use particular products shall be only made by competent persons and shall be based on actual working conditions, identified hazards, risk assessments, and other RPE limitations.

Specifications and limitations are indicated on the products and in the manuals. In case of any doubt, please contact your health and safety specialist or Research and Production Enterprise STANDART.

Failure to properly use respiratory protective equipment and/or wear the product in a hazardous environment may cause user's injury or serious or life-threatening illness or permanent disability.



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