

SATYNAM LIMITED
No. 07031766
United Kingdom



Salvavida ULPA P3 R
AIR FILTERS MADE IN EU

Introducing the **Salvavida P3 R ULPA U15 Bioparticle Canister Filter**



CE 1024 and UE certified nanoparticle virus canister filter.
The **ONLY REAL ULPA U15 P3 R Canister filter** in the world.

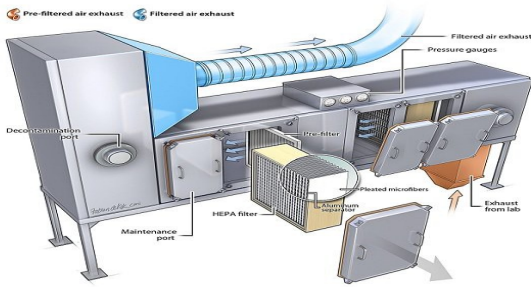
Our new and unique Salvavida P3 U15 Filters can protect you from bacterial and viral threats - including widespread pandemics like Ebola, Coronavirus (including COVID-19) and H1N1.

Custom Manufactured for us and Engineered using the latest in ULPA U15 filtration technology. The same filter material used in panel filters found in clean rooms where semiconductors are manufactured and Biolabs BSL4 Bio hazard labs. These New design custom manufactured Salvavida P3 ULPA U15 cartridge filters are the only ones in the market manufactured with ULPA U15 Borosilicate glass microfiber fiber filter medium.

We took the exact same filter material ULPA U15 used to purify the air in Bio-labs BLV4 and semiconductor 7 NM production facilities and adapted the special space age filter material into our Salvavida ULPA U15 cartridge filter media.

The Salvavida ULPA U15 cartridge filters are made using advanced filter media of Borosilicate glass microfiber coated with a special acrylic resin creating a nanoparticle hand held cartridge viral filter system. Finally you can have the highest safety possible Viral filter known to man. They are made to the highest standards and meet or exceed specifications in practically every metric.

This is the same material as used in stationary air filtration systems panels in clean room and Bio-labs level BSL4 facilities.



Bio-labs Bio Safety Level 4 Filter system and ULPA Filtration panels

The **Salvavida ULPA U15** canister filters at this level are handcrafted and assembled in medical device certified manufacturing facilities. Then pushed through a rigorous quality control and certification process to ensure consistent quality across each and every filter. Resulting in a **MERV** rating of 20 (the highest attainable for air filtration quality)

The **MERV** rating of the common N95 paper respirator is as low as 13 and filters out as little as 89% of smaller particles. That means that as much as 11% of aerosol viral particles could get through. The Coronavirus is the deadliest Plague in 100 years. If inhaled the smallest particle could kill you. The choice is yours. Take a chance with an N95 paper mask that only filters out 89% of the deadly Coronavirus particles. Or up your game and use a respirator that eliminates up to 99.9995% of the deadliest virus particles in 100 years.

MERV rating efficiency comparison table

MERV Rating	Efficiency for Smaller Particles	Efficiency for Larger Particles	Particulates Best Used For	Filter Type
1-4	<20%	65-80%	Pollen, dust, sanding dust, bigger than 10 microns	Residential A/C units, throwaway filters
5-8	20-35%	80-95%	Mold spores, cement dust	Residential filters, Commercial building filters, Pleated filters for industrial settings
9-12	40-75%	90-95%	Milled flour, welding fumes	Commercial building filters, hospital laboratories
13-16	89->95%	>98%	Bacteria, smoke	Hospital inpatient care, smokers lounges, general surgery areas.
17-19	–	0.9997	Combustion smoke, pharmaceutical manufacturing, viruses or radioactive materials	HEPA filters
20	–	0.99995	Clean rooms	ULPA filters

Our Salvavida ULPA 15 nanofilters have been subjected to extreme testing to ensure they'll filter out any and almost all environmental bio threats. The filter is even hydrophobic, so you can wear your mask in the rain or a decontamination shower without compromising your safety. This P3 U15 nanofilter can stop 99.99995% of bio threats. See the chart above. This is the **ONLY** type of canister filter that can protect you from tiny nanoparticles. Remember, the Coronavirus is infecting millions and killing thousands of people every day.

OUR FILTERS:

- Engineered using the latest in **ULPA U15** filtration technology, the same kind you'll find in Level 4 Bio-labs and clean rooms for the highest level of protection anywhere on the planet.
- Using advanced glass fiber filtration media ULPA grade U15 glass filter medium, the Salvavida P3 canister filter has a MERV rating of 20 -- the highest level you can get for air filtration quality.
- These ULPA U15 filters are hand-crafted using specially made Borosilicate glass fibers and a special resin. During manufacturing they are subjected to a rigorous quality control process.

FOR INQUIRIES PLEASE CALL 866-924-0607

A comparison of nanoparticle filtration performance by the Oxford Academic states that while the N95 paper filter allows an average particle filtration level of 0.703, the P3 is a whopping 60 TIMES more effective at just 0.009. The Salvavida is the only P3 ULPA U15 viral nanofilter respirator available!

Comparison of Nanoparticle Filtration Performance of NIOSH-approved and CE-Marked Particulate Filtering Facepiece Respirators | Oxford Academic

Table 1.

Penetration levels from the PAT for the different FFR types

Respirator class	N95		FFP2		P100		FFP3
Manufacturer	M1	M2	M1	M2	M1	M2	M1
Mean penetration (%)	0.703	0.565	0.270	0.505	0.034	0.0222	0.009

Salvavida ULPA U15 Certifications, Testing and Specifications

The Salvavida P3 R ULPA U15 nanoparticle filter: Stops particles as small as 0.1 microns. It's lightweight and filters out as much as 99.99995% of bio-threats.

We have tested ALL of the canister filters that we can get our hands on. Most carried no real certifications at all or were counterfeit and not one, as in none were REAL P3 R nanoparticle cartridge filters. Most were low grade HEPA filter paper with about an 80% efficiency. We found and know of NO filter cartridges made with ULPA U15 nanoparticle filter medium. This is the only material that protects you against viruses down to 0.1um.

Our **Salvavida P3 R ULPA U15 nanoparticle filters** are CE certified, fully EN approved to the latest standards, marked 'R' for re-usable (EN 143:2000/ A1:2006) and connect via a 40mm EN148-1 thread. CE approvals: EN143, EN14387, CE1024, and meets the requirements of standards ČSN EN143:2001+A1:2006, EN 12941:1999+A2:2009, EN 12942:1999+A2:2009.



The filter meets the requirements of standards:

ČSN EN 143:2001, Amendment A1:2006	Respiratory protective equipment. Particle filters. Requirements, testing, marking.
ČSN EN 12941:1999, Amendment A1:2004, Amendment A2:2009	Respiratory protective equipment. Filtering devices with auxiliary ventilation connected to a helmet or a hood. Requirements, testing and marking.
ČSN EN 12942:1999, Amendment A1:2003, Amendment A2:2009	Respiratory protective equipment. Filtering devices with an auxiliary ventilation attached to masks, half-masks and quarter-masks. Requirements, testing and marking.

The filter was tested and approved by the Occupational Safety Research Institute, v.v.i., the Authorized Body 235, the Notified Body 102. The EC certificate of type examination No. 235 / E-019/2016 PARTICLE FILTER P3 R

Photograph of the screen of the permeability testing machine.
The values under the red line show the permeability particle size filtered by ULPA 15 material

		KP velikost částic - permeability	Odpor	Výsledek	
19					
20					
21	Počet změřených filtrů :				
844	HEPA	823	0,004928	59,50	DOBRY
845		824	0,003351	57,50	DOBRY
846		825	0,010521	52,90	DOBRY
847		826	0,001168	55,80	DOBRY
848		827	0,028003	63,20	DOBRY
849		828	0,016240	58,90	DOBRY
850		829	0,015654	69,10	DOBRY
851	ULPA	830	0,000979	69,00	DOBRY
852		831	0,001063	70,90	DOBRY
853		832	0,013323	77,80	DOBRY
854		833	0,000333	74,20	DOBRY
855		834	0,000357	77,40	DOBRY
856		835	0,000297	65,40	DOBRY
857					
858					

PERFORMANCE:

Respiratory resistance

30 l/min – max. 40 Pa

95 l/min – max. 150 Pa

Penetration coefficient

Capture of dust, aerosol, bacteria and viruses 99.9995%

WATER RESISTANCE

Humidity 5% to 100% RH

The filter was tested after storage in high humidity environment and it has been found that the hydrophobic material of the particulate insert is resistant to said moisture.

Rain

The filter retains its effectiveness in heavy rain and is not prone to water ingress.

Operation temperature

Operation temperature -30°C (-22°F) to 70°C (172 °F) The filters were exposed to high and low ambient temperatures without harmful effects.

Filter Materials

Composed of Borosilicate glass microfiber SiO₂, Na₂O, K₂O, CaO, ZnO, MgO, Al₂O₃, B₂O₃, BaO and Acrylic. Binder 65997-17-3 95% R40 R36/37/38 R36/37/38 EINECS#266-046-0 R40.



CEN Classification: HEPA/ULPA Filters EN 1822-1:1998				
Filter Class	Overall Value (%)		Local Value (%)	
	Efficiency	Penetration	Efficiency	Penetration
H 10	85	15	---	---
H 11	95	5	---	---
H 12	99.5	0.5	---	---
H 13	99.95	0.05	99.75	0.25
H 14	99.995	0.005	99.975	0.025
U 15	99.9995	0.0005	99.9975	0.0025
U 16	99.99995	0.00005	99.99975	0.00025
U 17	99.999995	0.000005	99.999975	0.000025



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A I R F I L T E R S MADE IN EU

P3 R EN143 : 2000 + A1 2006
EN 143 P3 R
EN 12941 TH3P R SL
EN 12942 TH3P R SL

Biological, radioactive,
toxic solid and liquid particles
Aerosol, dust, micro-organisms
bacteria and viruses

Efficiency comparison table of the different filter grade

Grade	Basic weight (g/m ²)	Thickness (mm)	Pressure Drop (0.3µm@5.3cm/s Pa)	Efficiency (0.3µm@5.3cm/s %)	Tensile Strength (MD KN/M)	Stiffness (MD mg)
F6	70±2	0.45±0.06	≤ 15	≥15	≥1	≥1000
F7	70±2	0.45±0.06	≤ 30	≥50	≥1	≥1000
F8	70±2	0.45±0.06	≤ 45	≥60	≥1	≥1000
F9	70±2	0.45±0.06	≤ 70	≥85	≥1	≥1000
H10	72±2	0.4±0.06	≤ 127	≥92	≥1	≥1000
H11	75.87	0.4±0.06	≤ 180	≥98	≥1	≥1000
H12	75.98	0.4±0.06	≤ 250	≥99.8	≥1	≥1000
H13	76±2	0.4±0.03	≤ 280	≥99.977	≥1	≥1000
H14	76±2	0.4±0.03	≤ 372	≥99.998	≥1	≥1000
U15	76±2	0.4±0.03	≤ 440	≥99.9996	≥1	≥1000

Manufacture and Construction

The canister body is made of a special, tough food grade plastic, which is extremely durable against shocks and damage during operational use. The body of the filter is black and has a matte finish. The new, unique shape of the filter reduces the tilting moment and is up to 1 cm lower than the original shape or other competing filters.

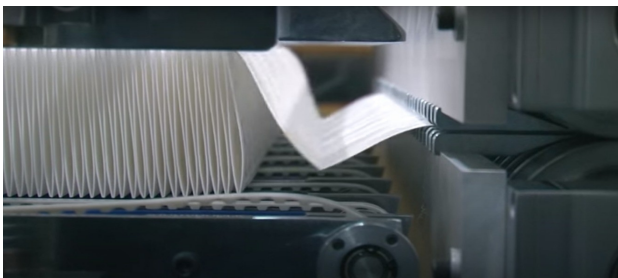
The state of the art filter insert is made of a special hydrophobic filter material **ULPA U15** class, which is characterized by excellent filtration efficiency while maintaining minimal breathing resistance and light weight.



We start with a roll of the specially manufactured glass fiber filter material you see on the left



The glass medium is inserted into a computerized Pleating machine where it is precisely folded



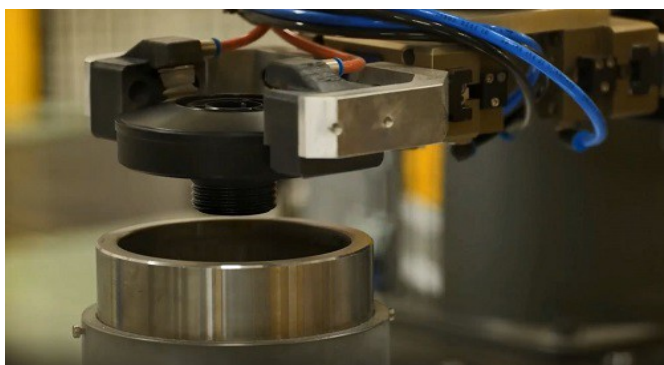
Here is a close up of the pleated filter medium



From there it goes into a special cutting machine where the material is cut into a circle

Then the cut pleated Filter medium sides are encapsulated in an airtight sealing material

The FILTER is then inserted into the black filter cartridge.



The 2 parts of the black filter cartridge are press fitted together and sealed shut

Then the P3 U15 filter is inspected and labeled.



And then the finished product is vacuum packed in a sealed plastic bag



APPLICATIONS

Used in industrial applications, chemical, petrochemical, food processing, electronics, pharmaceutical industries, foundries, paint shops, hospitals, first responders, laboratories, clean rooms AND LEVEL 4 BIOLABS.

Hospital Staff



SPECIFICATIONS

The particle filter **SALVAVIDA ULPA U15 CANISTER FILTER P3 R TH3 P R SL, TM3 P R SL** in combination with a suitable half mask, full mask or powered respirator. It serves for protection of the user's respiratory system. It can remove dangerous harmful particles of solid and liquid substances, biological solids and liquid aerosols, radioactive aerosols, dusts, bacteria and viruses from the air. From the viewpoint of filtering efficiency, it meets the requirements of the highest class P3 according to EN 143, TH3 according to EN 12941 and TM3 according to EN 12942. The filter is marked with a white strip in its circumference.

CLASS	PARAMETER	COLOR MARKING	APPLICATION
P3, TH3, TM3	max. filter penetration 0.0005 %	white	Solid and liquid aerosols, radioactive aerosols, bacteria and viruses.
R, P R SL	The filter has been designed for repeated use.		

The filter weight is 100 ± 10 g. This weight allows its direct connection to a face mask or a half mask.

GUIDELINES FOR USING THE FILTER

1. Store the filters in dry ventilated rooms in an intact original packaging and use by the marked time.
2. Concentration of oxygen in the ambient atmosphere must be at least vol. 17%.

Pay attention to the selection of a suitable type of filter and its thread. After opening the protective packaging, it is necessary to recheck:

- The integrity of the filter upper and lower plugs
- Whether the designation of the thread corresponds to the mask thread to which is to be connected. - Please be advised that there are two versions of threads: OZ 40 x 4 mm and Rd 40 x 1/7".

1. Before using a filter mask or filter medium remove both filter closures - plugs. Screw the filter onto the mask or the filter equipment. Check the tightness of threaded connection by packing the filter inlet by hand. When breathing, no under-suction may occur.
2. The filters can be used within temperatures of -30°C to $+70^{\circ}\text{C}$.
3. For using the filter against particles more than once, it is necessary to close the filter inlet and outlet with plugs to prevent the environmental pollution or contamination. Subsequently, clean the filter thoroughly, insert it into its original manufacturer's packaging and store in a safe place.

4. The filter is maintenance-free. The filter must be protected from mechanical damage.
5. The marking on the rating plate indicates the filter storage conditions, that is, the relative humidity of 0-95% RH, temperatures from -10°C to + 50°C and the end of the warranty period (the month and the year when the filter warranty guaranteed by the manufacturer ends) by means of symbols - pictograms.



6. The filters must be stored under the prescribed conditions, they should not be stored with substances that would harm their packages and then the filter housings.
7. Neither the filter nor its content may be used for other purposes.

Recommended storage

The expected shelf life of the filter (closed and packaged) is 10 years when stored at -10 to + 50 °C and <95% relative humidity.

Operation temperature -30°C (-22°F) to 70°C (172 °F) The filters were exposed to high and low ambient temperatures without harmful effects.

WASTE HANDLING – UNUSED FILTERS

Instructions for waste handling throughout the life cycle of the protective filter P3 R.

Unused protective filters whose lifetime ended should be disposed of in accordance with the "Guidelines" for waste handling, established by the legal regulations and the given country legislation.

WARNING:

The filter does not protect against toxic and harmful gases!

Respiratory resistance may tend to increase due to gradual clogging of the filter insert pores during inhalation. If breathing becomes difficult, replace the filter.

Limited Warranty & Product Returns

Who AND WHAT is covered And What is not covered.

THIS PRODUCT IS NOT WARRANTIED FOR ANY PARTICULAR USE AND FOR ANY PARTICULAR PURPOSE. SATYNAM LTD MAKES NO OTHER WARRANTIES ABOUT THE USE, PERFORMANCE, USE OR SUITIBILITY FOR ANY PARTICULAR PURPOSE OF THE PRODUCTS AND DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, RELATING TO THE PRODUCTS, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND USE.

WARRANTY AND SERVICE FOR ANY PRODUCT NOT MANUFACTURED BY SATYNAM LTD, IF ANY, IS PROVIDED BY THE ORIGINAL MANUFACTURER, NOT BY SATYNAM LTD. This warranty is extended to the original end-user purchaser or the person receiving the product as a gift only.

YOU USE THIS PRODUCT AT YOUR LIABILITY AND RISK

THE PRODUCT. IN NO EVENT SHALL SATYNAM LTD BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES HOWSOEVER CAUSED INCLUDING WITHOUT LIMITATION THE REPLACEMENT OF EQUIPMENT AND PROPERTY; AND SUCH LIMITATIONS WILL APPLY NOTWITHSTANDING THE FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

Other legal rights

This limited warranty gives you specific legal rights, and you also may have other rights that vary from state to state or country to country. The laws of certain jurisdictions do not allow limitations on implied warranties or the exclusion or limitation of certain damages, so some or all of the above disclaimers, exclusions or limitations may not apply or apply fully to you.

YOU USE THIS FILTER AT YOUR OWN RISK. IT IS UP TO YOU DECIDE ITS FITNESS FOR A PARTICULAR PURPOSE

The manufacturer guarantees full functionality of the filter if it is kept in an unopened package, when observing all conditions of storage. This warranty covers only replacement. If the filter fails in any way we will provide you a free replacement. Warranty does not cover clogged filters

What is covered and for how long

Satynam Ltd warrants that all new products are free from defects in manufacturing, materials and workmanship for a period of one year from date of retail purchase.

What is not covered

The warranty does not cover defects or malfunction caused by misuse, abuse or improper maintenance, failure to follow operating instructions, or use with equipment with which it is not intended to be used. It doesn't cover cosmetic or incidental damages. Also, the warranty will not apply to damage caused by unauthorized alteration, modification or repair of the product. Satynam Ltd does not warrant or provide service or support for any third party products.

What we will do

We will, at our discretion, replace any product that proves to be defective in material or workmanship during the warranty period. If you return a defective product within the 1st year of purchase, you will receive a full refund or new replacement unit. Your choice.

What we will not do

We will not pay shipping, insurance or transportation charges from you to us, or any import fees, duties and taxes. We will not be liable for any incidental or consequential damages

What to do to obtain warranty service

To obtain warranty service for products purchased from a third-party, retail or directly from Satynam Ltd

1. Contact directly the place you purchased the filter from to arrange a refund or return. Return shipping must be paid by you. You may be asked to complete a warranty service request form. And to help ensure warranty claims are genuine Satynam Ltd or its retailer may require you to email a copy of your purchase receipt.
2. Label and ship the product, freight prepaid, to the address provided by Satynam Ltd or its authorized retailer.
3. Place any necessary return authorization number prominently on the outside of the return packaging. Return packaging not bearing a return authorization number where required may be refused.

Exclusions and limitation THE PROVISIONS OF THIS LIMITED WARRANTY ARE IN LIEU OF ANY OTHER OBLIGATIONS OR LIABILITIES ON SATYNAM LTD PART ARISING OUT OF, OR IN CONNECTION WITH OUR PRODUCTS AND STATE OUR ENTIRE LIABILITY AND YOUR EXCLUSIVE REMEDIES RELATING TO THEM. EXCEPT AS OTHERWISE PROVIDED IN THESE LIMITED WARRANTY TERMS, THE PRODUCTS ARE PROVIDED WITHOUT EXPRESS OR IMPLIED PURPOSE OF FITNESS FOR A PARTICULAR USE OR PURPOSE. THEY ARE NOT WARRANTY FOR ANY PARTICULAR OR PURPOSE OF ANY KIND. ITS YOUR LIABILITY TO DECIDE THEIR USE AND FITNESS FOR ANY PARTICULAR PURPOSE AND CONDITION OF USE. SATYNAM LTD DOES NOT REPRESENT THE FITNESS OF THIS PRODUCT FOR ANY USE AND FOR ANY PURPOSE OF ANY KIND, WRITTEN OR ORAL, EITHER BY SATYNAM Ltd OR ANYONE WHO HAS BEEN INVOLVED IN THEIR CREATION, PRODUCTION OR DISTRIBUTION, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OR USE FOR A PARTICULAR PURPOSE, SATISFACTORY QUALITY, TITLE AND NON-INFRINGEMENT. SATYNAM LTD MAXIMUM LIABILITY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID BY YOU FOR THE PRODUCT.