UVMILK
POLYPROPYLENE MILK FILTERS

UVMILK milk filters are made from certified material, which is purchased from PJSC SIBUR Holding, the largest integrated petrochemical company in Russia. The use of UVMILK filters guarantees a high degree of purification thanks to a unique proprietary production technology that combines the use of frame and filter layers reinforced with microvilli for more effective retention of the smallest dirt particles. Strict adherence to filter manufacturing technology does not allow the filter to delaminate and crumble under the influence of increased pressure in the system.

The primary polypropylene from which the filters are made is approved for use in the food industry. This material is neutral and does not release chemicals and ions into milk, retains the fat content of milk and all its beneficial properties. Today, the company's product range includes basic, improved and ultra-fine filters, the service life of which is designed for volumes from 200 liters to 500 tons. The use of UVMILK milk filters guarantees farms the highest quality and additional profit due to the removal of all mechanical impurities, reducing the level of bacterial contamination and somatic cells in milk.

ADVANTAGES AND BENEFITS OF UVMILK MILK FILTERS

- The highest possible fineness of purification of raw milk
- Materials approved for contact with food
- Patented unique filter winding technology
- Quick installation and easy maintenance
- Careful grinding of body surfaces and welds
- Filter life from 200 liters to 500 tons
- Reducing somatic cell count and bacterial content of milk
- Increasing the shelf life of milk
- Reducing the human factor in production
- Increased service life of equipment
- Convenient replacement of the filter element after each batch of product

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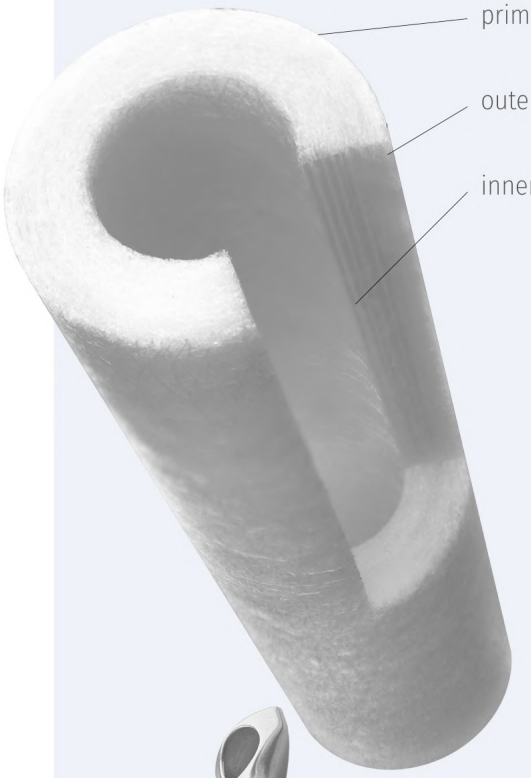

FILTER

The filter structure is formed by discrete rows of food-grade polypropylene fibers obtained by aerodynamic extrusion. The porosity of the filter layers increases from the center to the periphery, thereby ensuring multi-stage filtration.

Multi-angle intersections of fibers in the filter structure retain dirt particles of different sizes, without interfering with the passage of the elastic fat molecule. Our patented variable winding technology ensures uniform distribution of contaminants in the filter layers, which increases its service life.

HOUSING

The filter housing is made of stainless steel with external mirror polishing and internal surface treatment in accordance with 3-A certificate. The type of filter housing is selected in accordance with the type of medium being filtered, its viscosity, volume, and amount of contaminants.

The selection of the method of fastening the covers and pipes takes into account the flow pressure. Milk is supplied to the filter housing through the side pipe and, under the influence of pump pressure, passes through the cartridge. Through the outlet pipe in the bottom lid of the housing you receive milk with high-grade indicators.

FILTRATION RANGE

THERMALLY BONDED FILTERS FOR ROUGH PURIFICATION

10 µm

Thermally bonded UVMILK filters allow you to obtain high-quality milk that is free of small contaminants larger than 10 microns, such as dust, manure and feed particles. In many farms, these filters are the first stage of cleaning and must withstand a significant load. To increase strength, we use ultrasonic soldering, which eliminates the possibility of the filter rupturing at the seams and dirt particles re-entering the milk.

EXTRUSION FILTERS FOR FINE PURIFICATION

5 µm

UVMILK fine extrusion filters increase the grade of milk and allow you to receive an additional payment from the dairy by reducing bacterial contamination and acidity due to the filter design, consisting of 100 or more filter layers with a mesh size of 5 microns. UVMILK filter elements are made of virgin food-grade polypropylene without dyes and chemical impurities, which ensures the preservation of the taste and organoleptic properties of milk.

IMPROVED EXTRUSION FILTERS

4 µm

UVMILK extrusion filters with improved purification are designed to purify milk from microorganisms and the smallest mechanical impurities larger than 4 microns in size. A lower micron rating allows you to retain more mechanical impurities. By increasing the size of the filters and using a special winding technology, this type of filter has an increased service life, which is especially important when filtering heavily contaminated batches of milk.

EXTRUSION FILTERS FOR ULTRA-FINE PURIFICATION

3 µm

UVMILK ultra-fine extrusion filters contribute to premium and extra-grade milk production, increasing profitability of milk production and reducing the somatic cell count due to the patented SomaticStop technology and filtration fineness of 3 microns. Today, this is the highest possible degree of purification, which allows us to obtain milk of consistently high purity and ensure optimal technological properties of milk during processing.

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UVMILK IS AN EXPERT IN INDUSTRIAL FILTRATION

These are examples of filters for each purification level. Our company manufactures filters for any volume of milk and will help you select the right filter model based on your production volume. You can find the full range in the "Technical Specifications" section on the next page.

TECHNICAL SPECIFICATIONS

Filter type	Filtration stage	Filter	Filtration rating, µm	Filter resource, tons	Cartridge size, mm	Number of layers	Filter material	Quantity per box
Thermally bonded filters	Rough cleaning	Mobil filter Moby	30	0,5	90 x 42 x 32	1	PP / PE	430
		Sock filter 460x60	20	0,5	460 x 60 x 38			2000
		Sock filter 620x60	20	0,5	620 x 60 x 38			1500
		Sock filter 630x80	20	0,7	630 x 80 x 50			1500
		Sock filter 800x80	20	0,8	800 x 80 x 78			1000
		Sock filter 850x125	20	1	850 x 125 x 122			900
		Sleeve filter Short	10	1,5	240 x 30 x 20			330
		Sleeve filter Middle	10	2	300 x 42 x 32			440
		Sleeve filter Long	10	2,5	600 x 42 x 32			220
Extrusion filters	Fine purification	Milk filter Micro	5	1	80 x 30 x 20	120	PP 030	600
		Milk filter Mini		2	70 x 60 x 32			280
		Milk filter Standard		5	123 x 60 x 32			160
		Milk filter Max		10	240 x 60 x 32			80
		Milk filter Big		15	300 x 60 x 32			64
		Milk filter Prof		25	240 x 80 x 50			40
		Milk filter Master		50	240 x 100 x 50			30
		Milk filter Expert		100	399 x 100 x 50			18
		Milk filter Titan		250	600 x 180 x 129			10
		Milk filter Gigant		500	600 x 290 x 237			4
	Improved purification	Improved filter Little	4	3	80 x 80 x 40	140		140
		Improved filter Small		7	123 x 80 x 40			84
		Improved filter Medium		17	240 x 80 x 40			40
		Improved filter Large		30	400 x 80 x 40			25
		Improved filter Upper		70	500 x 80 x 40			20
	Ultra-fine purification	Ultra-filter ULTRA Simple 0,5	3	0,5	90 x 42 x 20	160		385
		Ultra-filter ULTRA Economic 1		1,5	50 x 70 x 38			294
		Ultra-filter ULTRA Practic 3		3	75 x 70 x 38			196
		Ultra-filter ULTRA Active 7		7	135 x 70 x 38			98
		Ultra-filter ULTRA 20		20	210 x 80 x 38			50
		Ultra-filter ULTRA 40		40	270 x 90 x 38			30
		Ultra-filter ULTRA 60		60	400 x 100 x 38			18
		Ultra-filter ULTRA 90		90	600 x 110 x 50			20

ABOUT US

Welcome to UVMILK Company, located in Voronezh, Russia, where we specialize in cutting-edge filtration equipment.

Since our inception in 2004, we have pioneered milk filtration technology, earning our first patent for this groundbreaking invention. With over 20 years of experience, we manufacture filtration solutions that cater to every stage of production — from raw materials and ingredients to finished products, as well as water, air, and fuel filtration. Our commitment to innovation is demonstrated by our extensive portfolio of 18 Russian patents for inventions and utility models, along with additional patents in China and New Zealand.

At UVMILK, we prioritize understanding our customers' needs and the unique characteristics of their production processes when developing new technologies.

We base our innovations on thorough scientific research, cutting-edge engineering advancements, and expert management insights. All new products undergo rigorous testing, both at our dedicated test bench and within our customers' production facilities. Innovations that demonstrate their effectiveness are adopted as best practices and seamlessly integrated into the technological workflows of agricultural, processing, and industrial enterprises.

UVMILK is a full-cycle enterprise specializing in extrusion, metalworking, thermal bonding, and silicone product manufacturing.

Our commitment to continuous development is supported by a robust in-house RD department, state-of-the-art equipment, and a team of qualified specialists. We drive innovation through research and development (RD), equipment enhancement, and comprehensive personnel training.

Today, UVMILK stands as the largest Russian manufacturer of filtration units for food, agricultural, and industrial enterprises. Our contributions are recognized and valued by the professional community. One of our core values is the trust of our partners, and we conduct all our activities in alignment with this principle.

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