NUTRITEXX, COOLTEXX, PLURATEXX, NOVATEXX

Viledon® sets the standard for industrial liquid filtration in terms of quality, reliability and versatility: with nutritexx for food and beverage filtration, with cooltexx for coolant and lubricant filtration, with pluratexx for oil, urea and fuel filtration and with novatexx as support media for membranes.

LIQUID FILTRATION

NUTRITEXX | FOOD-GRADE NONWOVENS

SPECIFICATIONS	
Material	Polyester (some with cellulose content), Polypropylene
Bonding	Chemical or thermal
Food-grade testing	dependent on the filter fleece, (EU) NO 10/2011, FDA 21 CFR

Application

Whether for food and beverage or drinking water filtration: In stringently hygienic areas such as food and beverage or drinking water filtration producers require special filter media which fulfill the various requirements and highest standards – Viledon® nutritexx filter media ensure the perfect combination of hygiene, efficiency and diversity.

Features and benefits

- Good processability for making bags (sewing, welding, die-cutting).
- Long operational lifetime.
- Low pressure drop.
- High wet strength.

Delivery notes

Customized roll dimensions available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR PERMEABILITY AT 100 Pa [l/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	THICKNESS APPROX. [mm]
nutritexx 2640	100	150	130/220	0.19
nutritexx 2641	100	900	120/75	0.63
nutritexx 2690N	75	1,600	90/60	0.60
nutritexx 2693N	65	1,800	80/60	0.53
nutritexx 2681	30	3,500	20/14	0.25
nutritexx 2614	65	980	85/45	0.22
nutritexx 1007 KN	70	38	55/25	0.25
nutritexx 2007	100	90	95/65	0.74
nutritexx 5021	50	90	40/25	0.35

LIQUID FILTRATION

NUTRITEXX | DRINKING WATER FILTER MATS

SPECIFICATIONS	
Fiber	Polyester
Principal application	Drinking water filtration

Application

nutritexx 2020 is made from 100% food-grade fibers. It is therefore particularly well suited for the application of ion exchangers and drinking water. Physiologically safe raw materials in conjunction with state-of-the-art production technology guarantee a filter medium that consistently meets the food and beverage industries' stringent requirements in terms of hygiene, efficiency and extractable constituents.

Food-grade testing to:

- 2011/10/EC
- FDA 21 CFR 177.1630
- KTW (Plastic, Drinking Water) Guideline of the UBA (German Federal Environmental Agency).
- DVGW (German Association of the Gas and Water Industry) Worksheet W 270.

ARTICLE	DIMENSIONS (W × L) [mm / m]	WEIGHT PER UNIT AREA APPROX. [g / m²]	AIR PERMEABILITY AT 100 Pa [l / (s × m²)]	THICKNESS APPROX. [mm]
nutritexx 2020	1,600 × 20	300	2,700	17

LIQUID FILTRATION

COOLTEXX | POLYESTER SPUNBONDED NONWOVENS

SPECIFICATIONS	
Material	Polyester endless filaments
Bonding	Thermal
Band filter principle	Pressure | vacuum
Machining process	Rotating | milling | drilling | grinding

Application

Viledon® cooltexx polyester spunbond media have a high mechanical and chemical resistance, are budget products, and on demand we also deliver food grade versions. Due to their excellent tensile strength, they can also be used on vacuum and pressure belt lines, where the filter material is under high mechanical stress.

Features and benefits

- Long lifetime.
- Maximized process dependability.
- Good filter cake detachment.
- Optimum process matching.
- Maximized mechanical strength.
- Filtration based on sieving effect.
- Smooth surface.
- High separation efficiency.

Delivery notes

Customized lengths available on request.

ARTICLE	FIBER STRUCTURE	WEIGHT PER UNIT AREA APPROX. [g/m²]	BELT FILTER PRINCIPLE	AIR PERMEABILITY AT 100 Pa [l/(s×m²)]	AIR-PERMEABILITY AT 125 Pa [l/(s×m²)]	THICKNESS APPROX. [mm]
cooltexx 6430	Fine fibers	30	Gravity | pressure		3,700	0.15
cooltexx 6450	Fine fibers	50	Pressure | vacuum		2,533	0.22
cooltexx 6470	Fine fibers	70	Pressure | vacuum		1,806	0.31
cooltexx 6534	Fine fibers – point-bonded	34	Gravity | pressure		2,500	0.16
cooltexx 6550	Fine fibers – point-bonded	50	Pressure | vacuum		1,426	0.23
cooltexx 6570	Fine fibers – point-bonded	70	Pressure | vacuum		885	0.30
cooltexx 7230	Coarse fibers	30	Gravity | pressure	4,420		0.12
cooltexx 7250	Coarse fibers	50	Pressure | vacuum	3,630		0.20
cooltexx 7270	Coarse fibers	70	Pressure | vacuum	2,600		0.28
cooltexx H7210	Coarse fibers	100	Pressure | vacuum	1,800		0.39

LIQUID FILTRATION

COOLTEXX | POLYPROPYLENE SPUNBONDED NONWOVENS

SPECIFICATIONS	
Material	Polypropylene endless filaments
Bonding	Thermal
Band filter principle	Pressure | vacuum
Machining process	Rotating | milling | drilling | grinding

Application

Viledon® cooltexx polypropylene spunbond media have a high mechanical and chemical resistance. Thanks to their excellent tensile strength, they can also be used on vacuum and pressure belt lines, where the filter material is under high mechanical stress.

Features and benefits

- Adsorption of foreign oil from the emulsion.
- High chemical stability.
- Good filter cake detachment.
- Oleophilic and hydrophobic fibers.
- Pure polypropylene.
- Smooth surface.

Delivery notes

Customized lengths available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m²]	MACHINING PROCESS	AIR-PERMEABILITY AT 125 Pa [l/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	THICKNESS APPROX. [mm]
cooltexx 3423	23	Turning | drilling | milling (smoothing)	3,350	45/35	0.23
cooltexx 3440	40	Turning | drilling | milling (smoothing)	1,550	100/60	0.38
cooltexx 3450	50	Turning | drilling | milling (smoothing)	900	90/60	0.38
cooltexx 3470	70	Grinding (ultra-precision machining)	750	180/100	0.48

LIQUID FILTRATION

COOLTEXX | CELLULOSE-POLYESTER MEDIA

SPECIFICATIONS	
Material	Cellulose + Polyester
Bonding	Chemical
Band filter principle	Gravitation | pressure | vacuum
Machining process	Grinding | honing | lapping (fine-smoothing)

Application

Viledon® cooltexx filter media with a cellulose content are used predominantly in aqueous solutions, where a low pressure drop is a primary consideration, e. g. with pure gravity systems. The hydrophilic properties of the cellulose ensure good wettability for water, so that despite the fine fibers used and the good particle arrestance only a low pressure drop ensues.

Features and benefits

- Hydrophilic fine-fiber medium with good water wettability.
- Long operational lifetime thanks to depth-loading filtration.
- Low pressure drop thanks to good wettability.
- High separation efficiency, even with fine particles.

Delivery notes

Customized lengths available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR PERMEABILITY AT 100 Pa [l/(s×m²)]	THICKNESS APPROX. [mm]
cooltexx 2652	17	3,220	0.18
cooltexx 2653	23	2,010	0.22
cooltexx 2654	32	1,350	0.26
cooltexx 2662	25	3,930	0.26
cooltexx 2663	37	2,770	0.32
cooltexx 2664	50	1,800	0.38
cooltexx 2666	60	2,150	0.50
cooltexx 2693	70	2,000	0.53
cooltexx 2689	130	1,000	1.0

LIQUID FILTRATION

COOLTEXX | DEPTH FILTER

SPECIFICATIONS	
Production process	Wet laid process
Material	Polyester (partly with cellulose content)
Bonding	needled + chemical
Band filter principle	Gravitation | pressure | vacuum
Machining process	Grinding | honing | lapping (fine-smoothing)

Features and benefits

- Particularly long operational lifetime thanks to deep bed filtration.
- Low pressure drop.
- High separation efficiency, even for fine particles.
- High dust holding capacity.
- Depth-loading filter – high nonwovens thickness.

Delivery notes

Customized lengths available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR PERMEABILITY AT 100 Pa [l/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG/ACROSS [%]	THICKNESS APPROX. [mm]
cooltexx 9210N	100	1,000	120/100	12/15	0.7
cooltexx 2689	130	1,000	160/90	13/16	1.0

LIQUID FILTRATION

PLURATEXX | OIL, UREA AND FUEL FILTRATION

SPECIFICATIONS	
Material	Polyester, Polypropylene, Polyamide
Bonding	Thermal

Whether for oil, urea or fuel filtration, Freudenberg Filtration Technologies high-quality filter media allow reliable removal of dirt particles, ensuring motor function and oil quality, and guarantee economic vehicle operation. Viledon® pluratexx filter media fulfill the various requirements of the hydraulic and automotive industry and assure the perfect combination of hygiene, efficiency and diversity.

Features and benefits

- High efficiency thanks to fine fibers.
- Long operational lifetime (high dust holding capacity).
- High mechanical strength and resistance to chemicals.
- No fiber release, no glass-fibers.

Delivery notes

Customized roll dimensions available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR-PERMEABILITY AT 200 Pa [l/(s×m²)]	PORE SIZE: LARGEST PORE/MFP [µm]	PARTICLE SIZE AT 90 % ARRESTANCE EFFICIENCY [µm]	PARTICLE SIZE AT 99 % ARRESTANCE EFFICIENCY [µm]	DUST HOLDING CAPACITY [g/m²]	THICKNESS APPROX. [mm]
pluratexx 2037	155	400	55/22	15	22	150	0.9
pluratexx 5120	120	500	50/20	20	30	80	0.54
pluratexx 5121	120	800	80/30	23	35	85	0.7
pluratexx 5021	50	200	25/11	7	12	75	0.35
pluratexx 2001 KN	62	100	18/11	5	9	65	0.24
pluratexx 1007 KN	65	65	16/7	5	11	65	0.3

NOVATEXX | DRAINAGE NONWOVEN FOR FILTER CARTRIDGES

SPECIFICATIONS	
Maximum width	2,000 mm
Standard lengths	500 m, 1,000 m

In the production of filter cartridges, Viledon® novatexx spunbonded nonwovens serve as “spacers” between the pleats on the face side and as a drainage layer on the clean side. The performance profiles of the media concerned can be very specifically designed to requirements. The nonwovens involved can be easily pleated together with the membrane without damaging the latter.

In the products of the 20xx series, the use of special bi-component fibers creates particularly high rigidity, which is indispensable for the pleating operation and significantly enhances the stability of the filter cartridge.

The raw materials used meet the requirements laid down for safety in food, beverage, medical and pharmaceutical applications.

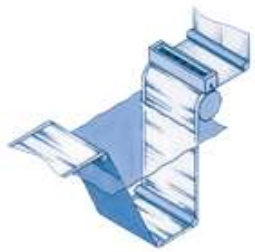
Delivery notes

Customized dimensions are available on request.
Please protect products from exposure to direct sunlight.

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR PERMEABILITY AT 100 Pa [l/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG/ACROSS [%]	THICKNESS APPROX. [mm]
novatexx 2010	PP Biko	50	1,300	155/90	60/70	0.24
novatexx 2019	PP Biko	70	1,200	170/90	60/70	0.44
novatexx 2035	PP Biko	30	1,800	85/50	50/50	0.15
novatexx 2036	PP Biko	30	3,900	60/35	60/60	0.23
novatexx 2043	PP Biko	50	1,800	140/70	60/70	0.32
novatexx 6317	PP	17	2,100 [50 Pa]	25/25	50/50	0.21
novatexx 6320	PP	20	1,900 [50 Pa]	35/30	40/40	0.24
novatexx 6340	PP	40	1,300	85/85	70/70	0.40

LIQUID FILTRATION

NOVATEXX | CARRIER MATERIALS FOR FLAT MEMBRANES



SPECIFICATIONS	
Minimum width	15 mm
Standard lengths	500 m, 1,000 m

Viledon® novatexx products for flat membranes stand for superior results in membrane production. The carrier materials are made of synthetic polymers, and are crucial to the mechanical and filtering properties of the filtration membranes. The specially created surface porosity enables the membrane solution to penetrate into the nonwoven, so as to achieve good adhesion results.

There is an option for additionally customizing the products by modifying the surface to suit the particular membrane production process involved.

All polymers used are suitable for contact with food and beverages.

Delivery notes

Customized lengths, widths and surface modification available on request.
Please protect products from exposure to direct sunlight.

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR-PERMEABILITY AT 200 Pa [l/(s × m²)]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG/ACROSS [%]	THICKNESS APPROX. [mm]
novatexx 2413	PET	100	300	125/240	10/25	0.19
novatexx 2430	PP/PE	100	150	200/300	65/65	0.22
novatexx 2431	PP/PE	60	500	110/170	60/85	0.14
novatexx 2432	PP/PE	32	700	60/80	50/70	0.11
novatexx 2442	PET	25	1,800	30/17	10/10	0.06
novatexx 2463	PP/PE	50	2,500	100/85	30/30	0.35
novatexx 2465	PP/PE	30	4,000	65/60	25/30	0.31
novatexx 2470	PP/PE	60	200	200/150	28/28	0.12
novatexx 2471	PP/PE	85	150	270/170	25/30	0.18
novatexx 2473	PP/PE	27	2,100	80/55	20/25	0.11
novatexx 2483	PET/PBT	70	100	170/110	25/30	0.10
novatexx 2484	PET/PBT	85	60	300/200	25/30	0.12

LIQUID FILTRATION

NOVATEXX | CARRIER MATERIALS FOR TUBULAR MEMBRANES

SPECIFICATIONS	
Minimum width	15 mm
Roll length	500 m

Viledon® novatexx products for tubular membranes are very well established in the membrane industry. The products are predominantly made of polyester fibers, and offer a high degree of stability. Combined with specially created surface porosity, novatexx products stand for superlative results in terms of membrane production.

There is an option for additionally customizing the products to suit the particular membrane production process involved, by surface modification or by providing an adhesive-compound finish.

All polymers used are suitable for contact with food and beverages.

Delivery notes

Customized lengths, adhesive-compound coating and surface modification available on request.
Please protect products from exposure to direct sunlight.

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m²]	AIR-PERMEABILITY AT 200 Pa [l/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG/ACROSS [%]	THICKNESS APPROX. [mm]
novatexx 2413	PET	100	300	125/240	10/25	0.19
novatexx 2416	PET	205	6	500/550	25/30	0.25
novatexx 2436	PET	235	4	550/600	20/35	0.27
novatexx 2472	PP/PE	200	90	650/380	25/28	0.42
novatexx 2482	PET/PBT	210	8	800/380	28/28	0.25