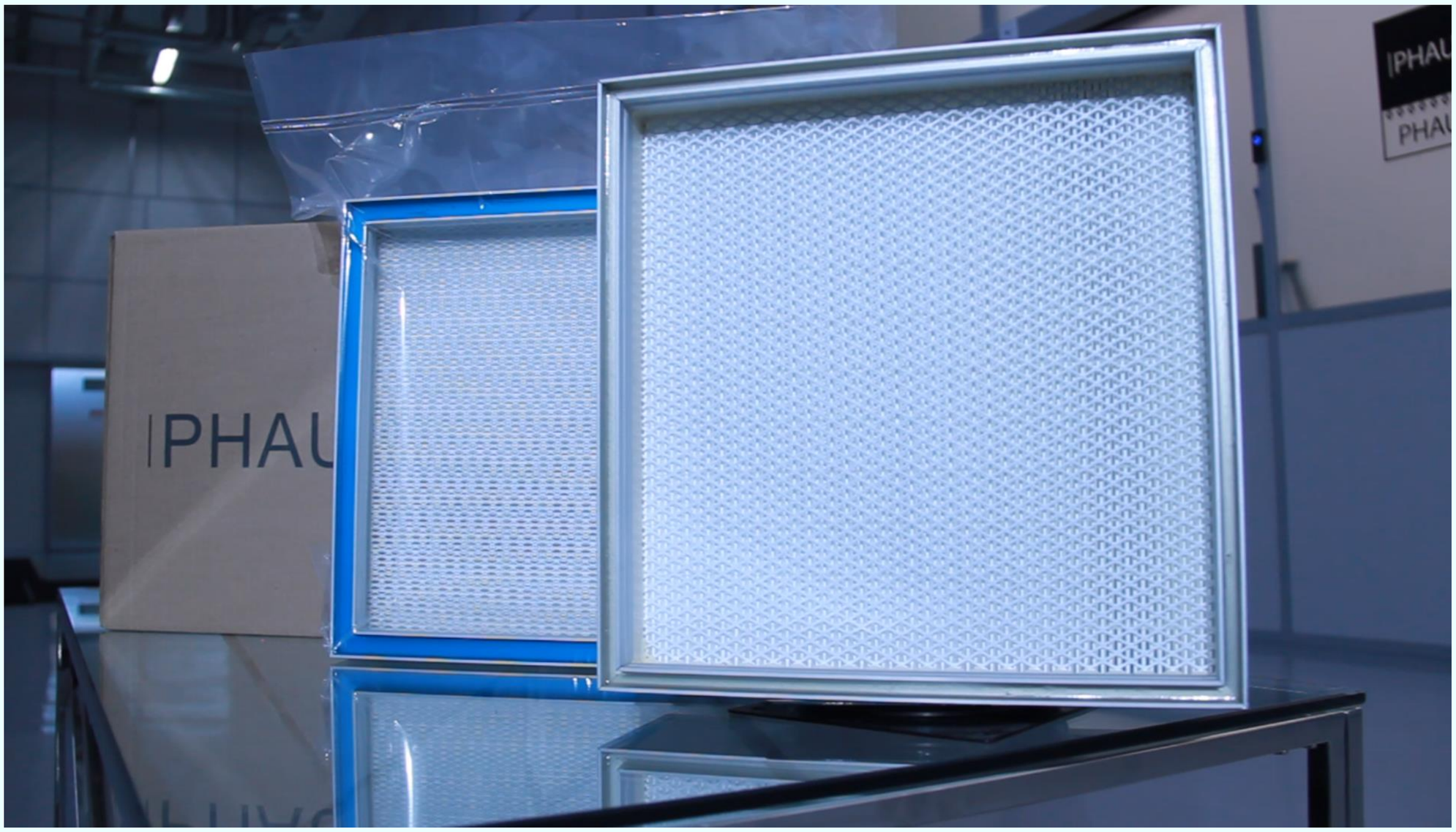
AIR FILTERS

AND

FILTERING MATERIALS



Product Catalogue

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PHAUF highly effective air filters are intended for removing the suspended particles in the ventilation systems of clean premises of ISO 1-9 (ISO 14644-1- 2002), and are also used in the systems of combined extract and input ventilation to meet special requirements to the air purity.

Meets the highest sanitary and hygiene requirements to the air purity in the premises.
They are used in such industries as pharmaceuticals, medicine, nuclear power, and food industry.

PHAUF filters are produced using “zero exhaust” technology that comprises automated assembly, individual vacuum packaging in a clean premises of ISO7 class, and quality control of each produced item with an automatic TOPAS scanner.

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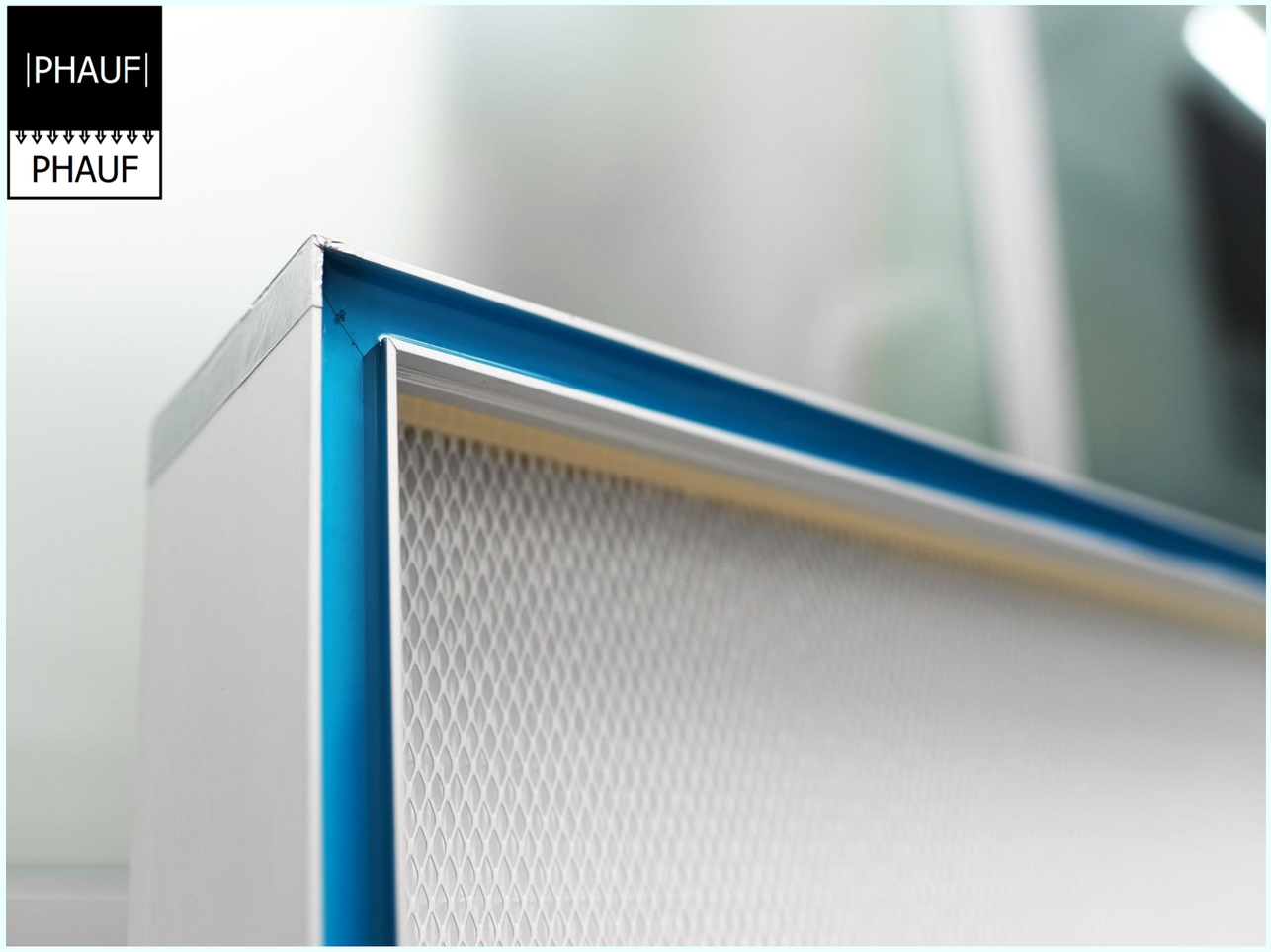

PHAUF Highly Efficient Fine Filters with gel sealing

Design and Materials

Design. The filter case is produced from anodized / unanodized extruded aluminium section with the filter package inside, containing the folds divided by adhesive separators. The filter package is sealed in the case with a special two-component polyurethane adhesive and is protected with meshes on both sides (the designs may vary). Special gel compound is used as sealing.

Materials. Extruded aluminium profile: 90 - 130 mm. Filtering material based on ultrafine glass fiber of E10 to U16 class. Protective PVA meshes zinc-plated in powder coating. Adhesive separators based on polyolefine melt. Special polyurethane adhesive and gel compound.

Section type, sealing	L	x	H	x	D	Fold height, mm	Purity class (EN 1822)	Nominal productivity, m^3/h	Initial pressure drop, Pa	Filtering surface area, m^2	Weight, kg
Anodized aluminium section with 105 mm frame, gel (PHCP-APC)	305	x	305	x	105	70	H14	150	85	3,8	2,5
	610	x	305	x	105			300		7,6	4,1
	610	x	610	x	105			605		15,1	6,5
	915	x	610	x	105			905		22,7	8,8
	1220	x	610	x	105			1205		30,2	12,1
	915	x	915	x	105			1355		34,1	12,1
	1220	x	915	x	105			1805		45,4	16,6
	1220	x	1220	x	105			2410		60,5	21,0
	305	x	305	x	105	70	U15	150	100	3,8	2,5
	610	x	305	x	105			300		7,6	4,1
	610	x	610	x	105			605		15,1	6,5
	915	x	610	x	105			905		22,7	8,8
	1220	x	610	x	105			1205		30,2	12,1
	915	x	915	x	105			1355		34,1	12,1
	1220	x	915	x	105			1805		45,4	16,6
	1220	x	1220	x	105			2410		60,5	21,0
	305	x	305	x	105	70	U16	150	120	3,8	2,5
	610	x	305	x	105			300		7,6	4,1
	610	x	610	x	105			605		15,1	6,5
	915	x	610	x	105			905		22,7	8,8
	1220	x	610	x	105			1205		30,2	12,1
	915	x	915	x	105			1355		34,1	12,1
	1220	x	915	x	105			1805		45,4	16,6
	1220	x	1220	x	105			2410		60,5	21,0

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Section type, sealing	L	x	H	x	D	Fold height, mm	Purity class (EN 1822)	Nominal productivity, m^3/h	Initial pressure drop, Pa	Filtering surface area, m^2	Weight, kg
Anodized aluminium section with 90 mm frame, gel (PHCP-APD)	305	x	305	x	90	58	E10	150	45	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5
	305	x	305	x	90	58	E11	150	60	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5
	305	x	305	x	90	58	E12	150	75	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5
	305	x	305	x	90	58	H13	150	100	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5
	305	x	305	x	90	58	H14	150	120	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5
	305	x	305	x	90	58	U15	150	100	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5
	305	x	305	x	90	58	U16	150	120	3,0	2,4
	610	x	305	x	90			300		6,1	3,9
	610	x	610	x	90			605		12,1	6,1
	915	x	610	x	90			905		18,1	8,3
	1220	x	610	x	90			1205		24,2	11,4
	915	x	915	x	90			1355		27,3	11,2
	1220	x	915	x	90			1805		36,4	15,4
	1220	x	1220	x	90			2410		48,4	19,5

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PHAUF Highly Efficient Fine Filters with polyurethane sealing

Design and Materials

Design. The filter case is produced from anodized / unanodized extruded aluminium section with the filter package inside, containing the folds divided by adhesive separators. The filter package is sealed in the case with a special two-component polyurethane adhesive and is protected with meshes on both sides (the designs may vary). Seamless foam polyurethane is used as sealing.

Materials. Extruded aluminium profile: 69 -150 mm. Filtering material based on ultrafine glass fiber of E10 to U16 class. Protective PVA meshes zinc-plated in powder coating. Adhesive separators based on polyolefine melt. Special polyurethane adhesive and seamless foam polyurethane .

Section type, sealing	L	x	H	x	D	Fold height, mm	Purity class (EN 1822)	Nominal productivity, m^3/h	Initial pressure drop, Pa	Filtering surface area, m^2	Weight, kg
Anodized aluminium section with 78 mm frame, polyurethane (PHCP-API)	305	x	305	x	78	58	E10	150	45	3,0	2,2
	610	x	305	x	78			300		6,1	3,6
	610	x	610	x	78			605		12,1	5,7
	915	x	610	x	78			905		18,1	7,8
	1220	x	610	x	78			1205		24,2	10,8
	915	x	915	x	78			1355		27,3	10,6
	1220	x	915	x	78			1805		36,4	14,8
	1220	x	1220	x	78			2410		48,4	18,7
	305	x	305	x	78	58	E11	150	60	3,0	2,2
	610	x	305	x	78			300		6,1	3,6
	610	x	610	x	78			605		12,1	5,7
	915	x	610	x	78			905		18,1	7,8
	1220	x	610	x	78			1205		24,2	10,8
	915	x	915	x	78			1355		27,3	10,6
	1220	x	915	x	78			1805		36,4	14,8
	1220	x	1220	x	78			2410		48,4	18,7

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Section type, sealing	L	x	H	x	D	Fold height, mm	Purity class (EN 1822)	Nominal productivity, m^3/h	Initial pressure drop, Pa	Filtering surface area, m^2	Weight, kg
Anodized aluminium section with 78 mm frame, polyurethane (PHCP-API)	305	x	305	x	78	58	E12	150	75	3,0	2,2
	610	x	305	x	78			300		6,1	3,6
	610	x	610	x	78			605		12,1	5,7
	915	x	610	x	78			905		18,1	7,8
	1220	x	610	x	78			1205		24,2	10,8
	915	x	915	x	78			1355		27,3	10,6
	1220	x	915	x	78			1805		36,4	14,8
	1220	x	1220	x	78			2410		48,4	18,7
	305	x	305	x	78	58	H13	150	100	3,0	2,2
	610	x	305	x	78			300		6,1	3,6
	610	x	610	x	78			605		12,1	5,7
	915	x	610	x	78			905		18,1	7,8
	1220	x	610	x	78			1205		24,2	10,8
	915	x	915	x	78			1355		27,3	10,6
	1220	x	915	x	78			1805		36,4	14,8
	1220	x	1220	x	78			2410		48,4	18,7
	305	x	305	x	78	58	H14	150	120	3,0	2,2
	610	x	305	x	78			300		6,1	3,6
	610	x	610	x	78			605		12,1	5,7
	915	x	610	x	78			905		18,1	7,8
	1220	x	610	x	78			1205		24,2	10,8
	915	x	915	x	78			1355		27,3	10,6
	1220	x	915	x	78			1805		36,4	14,8
	1220	x	1220	x	78			2410		48,4	18,7

Section type, sealing	L	x	H	x	D	Fold height, mm	Purity class (EN 1822)	Nominal productivity, m^3/h	Initial pressure drop, Pa	Filtering surface area, m^2	Weight, kg
Anodized aluminium section with 69 mm frame, polyurethane (PHCP-APJ)	305	x	305	x	69	50	E10	150	50	2,6	2,2
	610	x	305	x	69			300		5,2	3,5
	610	x	610	x	69			605		10,4	5,6
	915	x	610	x	69			905		15,6	7,6
	1220	x	610	x	69			1205		20,9	10,6
	915	x	915	x	69			1355		23,5	10,4
	1220	x	915	x	69			1805		31,4	14,5
	1220	x	1220	x	69			2410		41,7	18,4
	305	x	305	x	69	50	E11	150	70	2,6	2,2
	610	x	305	x	69			300		5,2	3,5
	610	x	610	x	69			605		10,4	5,6
	915	x	610	x	69			905		15,6	7,6
	1220	x	610	x	69			1205		20,9	10,6
	915	x	915	x	69			1355		23,5	10,4
	1220	x	915	x	69			1805		31,4	14,5
	1220	x	1220	x	69			2410		41,7	18,4
	305	x	305	x	69	50	E12	150	90	2,6	2,2
	610	x	305	x	69			300		5,2	3,5
	610	x	610	x	69			605		10,4	5,6
	915	x	610	x	69			905		15,6	7,6
	1220	x	610	x	69			1205		20,9	10,6
	915	x	915	x	69			1355		23,5	10,4
	1220	x	915	x	69			1805		31,4	14,5
	1220	x	1220	x	69			2410		41,7	18,4
	305	x	305	x	69	50	H13	150	120	2,6	2,2
	610	x	305	x	69			300		5,2	3,5
	610	x	610	x	69			605		10,4	5,6
	915	x	610	x	69			905		15,6	7,6
	1220	x	610	x	69			1205		20,9	10,6
	915	x	915	x	69			1355		23,5	10,4
	1220	x	915	x	69			1805		31,4	14,5
	1220	x	1220	x	69			2410		41,7	18,4
	305	x	305	x	69	50	H14	150	140	2,6	2,2
	610	x	305	x	69			300		5,2	3,5
	610	x	610	x	69			605		10,4	5,6
	915	x	610	x	69			905		15,6	7,6
	1220	x	610	x	69			1205		20,9	10,6
	915	x	915	x	69			1355		23,5	10,4
	1220	x	915	x	69			1805		31,4	14,5
	1220	x	1220	x	69			2410		41,7	18,4

FILTERING MATERIALS

Paper made of fine glass fiber

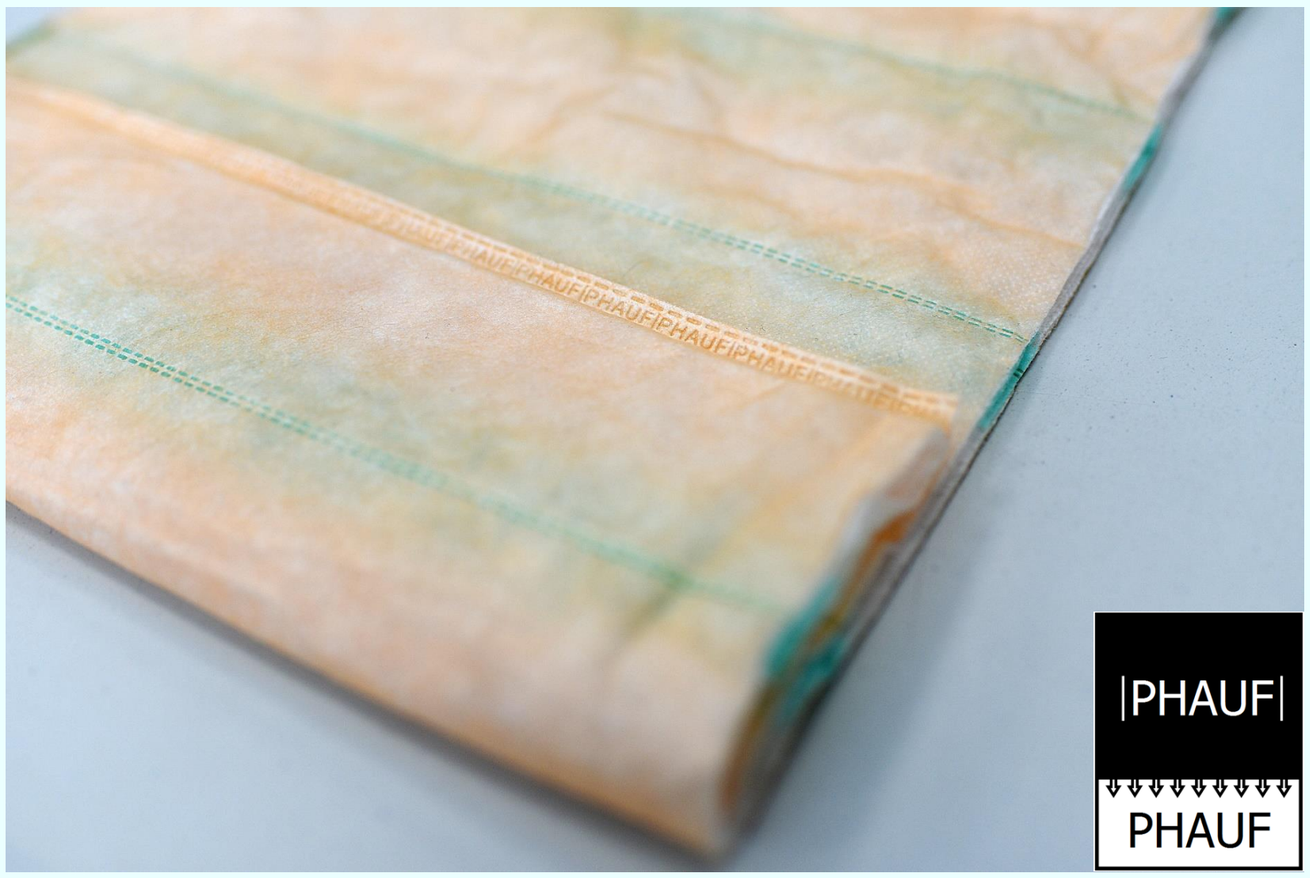
The filter package is produced from ultrafine glass fiber by uniform folding of the filtering material with rotary folder machine and applying adhesive separators between the folds

Technical parameters
Class: F9 to U16
Fold height: 20 to 100 mm
Dimensions of the filter packages: 300*300 mm to 1220*1220 mm

SMS Composite Filtering Material

The composite filtering material (SMS- Sbanbond - Meltblown- Sbanbond) is used to produce pocket filters of various classes M5-F9 and is designed in the form of a sleeve comprising three layers of materials: the outer layer is coloured spanbond that regulates the material purity class / the middle layer is meltblown electrostatically charged 3D material based on ultrasound polypropelene fibers / the internal layer is colourless spandbond or prefilter made of polyester to capture large particles (allowing to increase the dust holding capability (DHC) and extend the service life of the entire material).

The composite filtering SMS material has longitudinal separators which prevent adhesion with the adjacent pockets during operation.



The longitudinal and cross-sectional joints of the filtering material are welded using ultrasonic welding.

Technical parameters
Class: M5 to F9
Pocket dimensions: breadth from 300*700 mm, length from 100*1000 mm

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