



Fuels and Chemicals

K-Series Depth Filter Sheets

In the chemical industry it is necessary to filter out residues from raw-, intermediate- or finished products. Lacquers, colors, synthetic resins, pesticides, polymers, waxes as well as technical oils offer a broad spectrum for the effective employment of Pall depth filter. With 13 different retention rates the K series represents the standard depth filter sheet series from Pall, formerly SeitzSchenk.

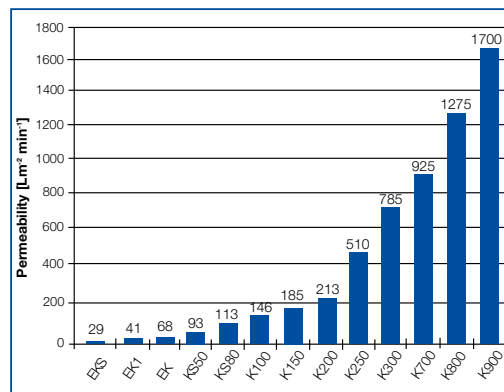
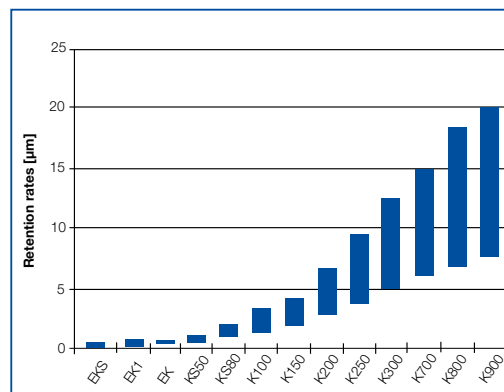


The EKS, the EK 1 and the EK are used for fine particles. Grades K 100 through to K 900 cover the entire range from fine filtration through clarifying filtration to coarse filtration.

Material components

Due to their material composition and their structural design SeitzSchenk depth filters can basically be compared with a maze-like, extremely fine three-dimensional sieve with innumerable, branched micro"channels".

The main components are cellulose, diatomaceous earth and/or perlite and synthetic polymers. The cellulose generates the matrix of the depth filter. The diatomaceous earth and/or perlite are responsible for the clarifying effect. The synthetic polymers build up the wet strength and the the positive ZETA potential.



Δp = 100 kPa (1 bar), T = 20°C, medium H₂O

Characterization

The tests are carried out according to the methods of the Technical/ Analytical Work Group within the European Depth Filtration Association or in accordance with in-house test methods.

Technical Data

Sheet	Mass per unit area [g m ⁻²]	Thickness [mm]	Ash [%]	Extractable ions soluble in acetic acid (5%) [mg m ⁻²]		
				Ca	Fe	Al
EKS	1400	3.7	58	1800	15	150
EKS1	1400	3.7	51	1800	15	140
EK	1350	3.7	46	1400	10	120
KS 50	1350	3.7	46	1400	10	120
KS 80	1350	3.7	46	1200	15	120
K 100	1350	3.7	46	1400	15	120
K 150	1350	3.9	46	1300	15	120
K 200	1350	3.9	46	1200	15	110
K 250	1300	4.0	46	1000	15	70
K 300	1300	4.2	46	900	15	50
K 700	1300	4.1	46	900	15	50
K 800	1300	4.1	46	900	15	45
K 900	1300	4.3	46	900	25	40

Heavy metals < 50 ppm (according to the Recommendation XXXVI/1 BgVV- German Federal Institute for Health Protection of Consumers and Veterinary Medicine).

Application

Sheet	Typical Application
EKS EKS 1 EK KS 50 KS 80	Fine clarification
K 100 K 150 K 200 K 250 K 300	Clarifying filtration Retention of activated carbon Retention of salts Removal of gels from silicones, alkyd resins, polymers Catalyst retention from various solutions
K 700 K 800 K 900	Retention of gels from resins (alkyd resins, polyacrylates) Silicon oils and silicon resins Tensides (clarifying filtration)

The figures quoted in the diagrams and tables should be regarded as guidelines.

The following certificates are available:

- Technical Data sheet
- Certificate of Compliance with the Order according to DIN 50049-2.1/EN 10204-2.1
- EU Safety Data Sheet

The depth filters conform to the Recommendation XXXVI/1 BgVV (German Federal Institute for Health Protection of Consumers and Veterinary Medicine) and meet the requirements of the Lebensmittel- und Bedarfsgegenständegesetz - LMBG - (Foodstuff and other Commodities Act), in particular §§ 5, 30 and 31; they can be used for cold filtration of foodstuff without any reservation.

Important Note :

All information contained in this leaflet is based on today's 'State of the Art' knowledge. It does not claim to be complete, therefore no liability can be accepted. All users are advised to test our products to ensure they meet their specific requirements and to exercise all necessary care when in use. The information in the instruction manuals issued by us should be strictly observed. Departure from our specific instructions means we cannot accept any responsibility for damage which may result. Should you encounter specific problems, please contact our specialists. We reserve the right to make alterations without prior notice.



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