



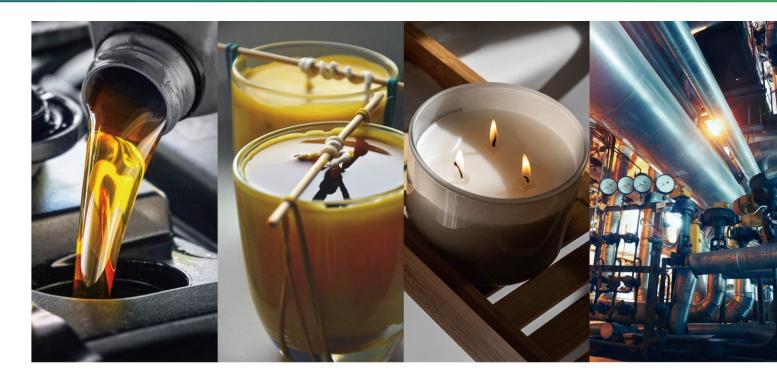
Great Wall K Series Depth Filter Sheets For the Filtration of Highly Viscous Liquids

K series depth filter sheets are specifically manufactured for polishing filtration of viscous liquids and media containing particles.

The depth filter sheet is used in the chemical, cosmetics, and food industries for clarifying filtration of coarse, crystalline, amorphous or gel-like impurity structures. According to given specifications, a wide range of filtration tasks can be performed, even with highly viscous liquids.

Specific Advantages

- High dirt holding capacity for economic filtration
- Differentiated fiber and cavity structure (internal surface area) for the widest range of applications and operating conditions
- The ideal combination of filtration
- Active and adsorptive properties ensures maximum safety
- Very pure raw materials and therefore minimum influence on filtrates
- Comprehensive quality assurance for all raw and auxiliary materials and intensive in process controls ensure consistent quality of the finished products



Applications

□ Polishing Filtration □ Clarifying filtration □ Coarse filtration

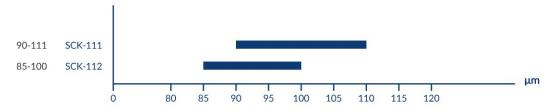
K series depth filter sheets' high dirt holding capacity for gel-like impurities is specifically designed for the filtration of highly viscous liquids.

Retention of activated charcoal particles, polishing filtration of viscose solution, paraffin wax, solvents, ointment bases, resin solutions, paints, inks, glue, biodiesel, fine/specialty chemicals, cosmetics, extracts, gelatin, high viscosity solutions etc.

Main Constituents

Great Wall K series depth filter medium is made only of high purity cellulose materials.

Relative Retention Rating



- * These figures have been determined in accordance with in-house test methods.
- * Effective removal performance of filter sheets is dependent on process conditions.



Physical Data

This information is intended as a guideline for the selection of Great Wall depth filter sheets.

Model	Mass per unit area (g/㎡)	Flow time (s)①	Thickness (mm)	Nominal retention rate (μm)	Water permeability② (L/m²/min △=100kPa)	Dry bursting strength (kPa≥)	Ash content %
SCK-111	650-850	2"-8"	3.4-4.0	90-111	18600-22300	200	1
SCK-112	350-550	5"-20"	1.8-2.2	85-100	12900-17730	150	1

1) Flow time is a time indicator used to evaluate the filtering accuracy of the filter sheets. It is equal to the time it takes for 50 ml of distilled water to pass 10 cm² of filter sheets under the conditions of 3 kPa pressure and 25°C.

②The permeability was measured under test conditions with clean water at 25°C (77°F) and 100kPa, 1bar (Δ 14.5psi) pressure.

These figures have been determined in accordance with in-house test methods and the methods of the Chinese National Standard. The water throughput is a laboratory value characterizing the different Great Wall depth filter sheets. It is not the recommended flow rate.

Chemical Data

Microbial Detection and Analysis

Great Wall depth filter medium meets the requirements of Chinese Pharmacopoeia (2020 edition) Four General Principles (1107).

Test Item	Limit Requirements	Unit	Test Result	Conclusion	Test Method	
Total aerobic bacteria	10 ³	CFU/g	40	PASS	Refer to "Chinese Pharmacopoeia" (2020 edition	
Total number of molds and yeasts	10 ²	CFU/g	<10	PASS	Four General Principles (1105) pour method	

US FDA Guidelines CFR 176. 170-Chloroform Soluble Extractives

Great Wall depth filter medium meets the requirements of US FDA 21 CFR (Food and Drug Administration).

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Chlorofonn-soluble extractives	Conclusion
Distilled water	2.0hr(s)	250°F	0.5mg/inch ²	<0.1mg/inch²	PASS
8% Ethanol	2.0hr(s)	150°F	0.5mg/inch ²	<0.1mg/inch²	PASS
50% Ethanol	2.0hr(s)	150°F	0.5mg/inch²	<0.1mg/inch ²	PASS
N-Heptane	0.5 hr(s)	150°F	0.5mg/inch ²	<0.1mg/inch²	PASS

GB4806.8-2016 Standard (General Safety Requirements for Food-Contact Materials and Articles)

Great Wall depth filter medium meets the requirements of the GB4806.8-2016 standard.

Test Item	Unit	Standard requirements	Test Result	Conclusion	Reference standard
Sensory test	-	Normal color, no peculiar smell, mildew or other contaminants	PASS	PASS	GB 4806.8-2016
Soaking liquid	1.01	The soaking liquid obtained from the migration test should not have sensory deterioration such as coloring and peculiar smell	PASS	PASS	GB 4806.8-2016
(Pb)	mg/kg	<3.0	N.D	PASS	GB 31604.34-2016
(As)	mg/kg	<1.0	N.D	PASS	GB 31604.38-2016
Overall Migration	mg/dm²	<10	N.D	PASS	GB 31604.1-2015&GB 31604.8-2016
Consumption of potassium permanganate	mg/kg	<40	9.6	PASS	GB 31604.2-2016
formaldehyde	mg/dm²	<1.0	N.D	PASS	GB 4806.8-2016
Fluorescent substance wavelength 254nm and 365nm	(2)	Negative	Negative	PASS	GB 31604.47-2016
Heavy metals (calculated as Pb)	mg/kg	<1.0	<1.0	PASS	GB 31604.9-2016
Coliform	/50cm ²	Not Detected	N.D	PASS	GB 14934-2016
Salmonella	/50cm ²	Not Detected	N.D	PASS	GB 14934-2016
Mildew	CFU/g	≤50	<10	PASS	GB 4789.15-2016

Instructions for Correct Use

Great Wall depth filter sheets need to be carefully handled when inserting them into the plate and frame filter. Avoid banging, bending, and rubbing the sheets. Do not use damaged depth filter sheets.

Inserting

The depth filter sheets have a rough side and a smooth side. The rough side is the feed side, and the smooth side is the filtrate side. Always ensure that the filtrate side is in contact with the clear filtrate plate when inserting the sheets.

Quality Assurance

Great Wall's R&D, production and application of our products are based on more than 30 years of depth filter media experience. All of our staff are committed to ensuring and continuously improving the quality of products and services.

We fulfill this responsibility by ensuring that our products meet national and international quality standards, and manufacturing is in accordance with the rules of Quality Management System ISO 9001 and Environmental Management System ISO 14001.



This certification verifies that a fully functioning comprehensive Quality Assurance System covering product development, contract controls, supplier selection, receiving inspections, production, final inspection, inventory management, and shipment has been implemented. The raw materials used in production are submitted to specific controls. In addition, continuous and repeated tests are carried out during the manufacturing process. Stringent quality and environment control during manufacturing ensures high quality standards and cleanliness of the Great Wall filter media, thus meeting the special requirements of our customers. Our products are verified and certified by an independent external institute to demonstrate our suitability for the food industry.

The Great Wall welcomes factory audits to ensure that rigorous production practices and procedures are in place.

- GBT 25437-2010, GBT 25435-2010(Chinese national standard of filter sheets)
- GB4806.8-2016 standard (General Safety Requirements for Food-Contact Materials and Articles)
- Chinese Pharmacopoeia (2020 edition) Four General Principles (1107)
- SGS test report meets US FDA 21 CFR 176.170-Chloroform soluble extractives
- Quality Management System ISO 9001:2015
- Environmental Management System ISO 14001:2015

Safety

When used and handled correctly, there are no known unfavorable effects associated with this product. For further safety information, contact GREAT WALL to request the relevant Material Safety Data Sheet.

Waste Disposal

Due to their composition, Great Wall depth filter media is 100% biodegradable. Untainted sheets can be disposed of with normal household waste. Used sheets must be disposed of in accordance with the type of contamination.

Storage Period and Conditions

The product must be handled carefully during shipping and storage. Do not expose support sheets to direct sunlight. The sheets must be preserved in their original packaging and stored in a dry, odor-free, and well-ventilated area. Under no circumstances, together with or in the vicinity of evaporating chemicals, oils, fuels, etc.

We recommend using the sheets within 36 months of the date of manufacture.

Forms of Supply

Filter media can be manufactured in formats to fit your application, based on customers' requirements, the filter press sizes and types currently in use.

All customary dimensions and any other special formats are virtually available on request, like folded sheets, rectangular sheets, circular sheets, sheets with various holes, and other customized cuts.

Packaging

Great Wall filter sheets are packaged in hygienic plastic bags and after that in cartons. Special packaging is available on request.

Contact Us

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice.

Great Wall has strong sales team throughout the world. Please consult your Great Wall representative or visit www.filtersheets.com for more information.



Shenyang Great Wall Filtration Co.,Ltd

□ Mobile: +86-15566231251

Email: clairewang@sygreatwall.com

Web: www.filtersheets.com

Add: No.45 Yalujiang North Street, Huanggu District, Shenyang City, Liaoning Province, China

₽ P.C.: 110033