

## Product Information

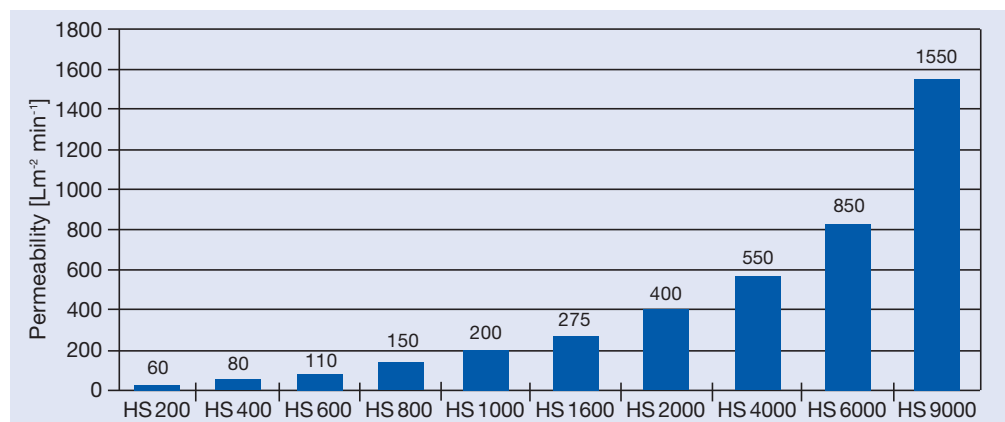
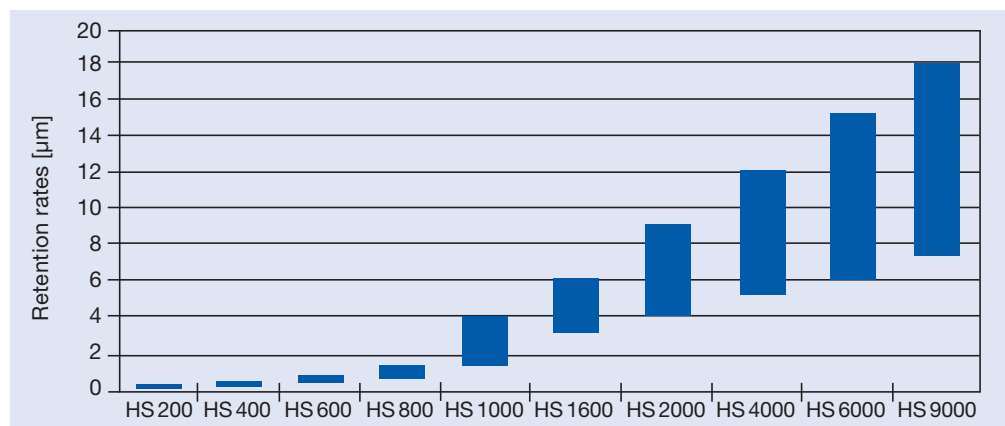
### Depth Filter Sheets of the HS-Series

The HS series of Pall SeitzSchenk comprises 10 filter sheets with different retention rates. The designation „HS“ stands for high stability; it characterises filter sheets with a very pronounced rigidity which are suitable for use at high temperatures as well as low temperatures. The figure in the designation depicts the degree of clarification of the filter sheet and thus also its application possibility whereby a small figure is synonymous with a high degree of clarification.

Grades HS 200 and HS 400 are used for sterilising filtration duties, whereas HS 600 and HS 800 are classified as micro-organism-

reducing depth filters. They can produce a sterile filtrate at low organism counts in the unfiltered product. The grades HS 1000 through to HS 9000 cover the entire range from fine filtration via clarifying filtration to coarse filtration.

The main components for the manufacture of filter sheets of the HS-series are cellulose, kieselguhr and perlite. A high specific output combined with a long service life ensure an economical operation, particularly in beer filtration. A very high permanent wet strength provides excellent behaviour during unloading of the sheets after use.



$\Delta p = 100 \text{ kPa (1 bar)}$ ,  $T = 20^\circ\text{C}$ , Medium  $\text{H}_2\text{O}$

## Characterisation

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.

Sheet	Mass per unit area [g m <sup>-2</sup> ]	Thickness [mm]	Ash [%]
HS 200	1400	3.8	52
HS 400	1360	3.8	49
HS 600	1320	3.7	49
HS 800	1280	3.7	49
HS 1000	1260	3.7	48
HS 1600	1240	3.7	48
HS 2000	1220	3.8	48
HS 4000	1200	3.9	46
HS 6000	1180	4.2	15
HS 9000	1080	4.2	46

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

## Areas of application

Sheet	Application
HS 200	
HS 400	Beer (cold-sterile filtration of beers with a high bacteria load)
HS 600	Beer (cold-sterile filtration of beers with a moderate microbial load)
HS 800	Beer (cold-sterile, yeast-free bottling), Gelatine (thick broth, polishing filtration)
HS 1000	Beer (fine filtration, removal of yeast), Gelatine (thick broth, polishing filtration), Filtration of enzymes
HS 1600	Beer (fine filtration following kieselguhr pre-filtration), Gelatine (thick broth, polishing filtration), Filtration of enzymes
HS 2000	Beer (fine filtration following kieselguhr pre-filtration), Gelatine (thin broth filtration: 2 <sup>nd</sup> or 3 <sup>rd</sup> stage, thick broth: polishing filtration), Filtration of enzymes
HS 4000	Beer (polishing filtration), Gelatine (thin broth filtration: 1 <sup>st</sup> or 2 <sup>nd</sup> stage), Filtration of enzymes
HS 6000	Gelatine (thin broth filtration: 1 <sup>st</sup> stage), Filtration of enzymes
HS 9000	Filtration of enzymes

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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Reorder Code. PSS-P138 engl. 1 11/02 O