

High absorption BK filter range

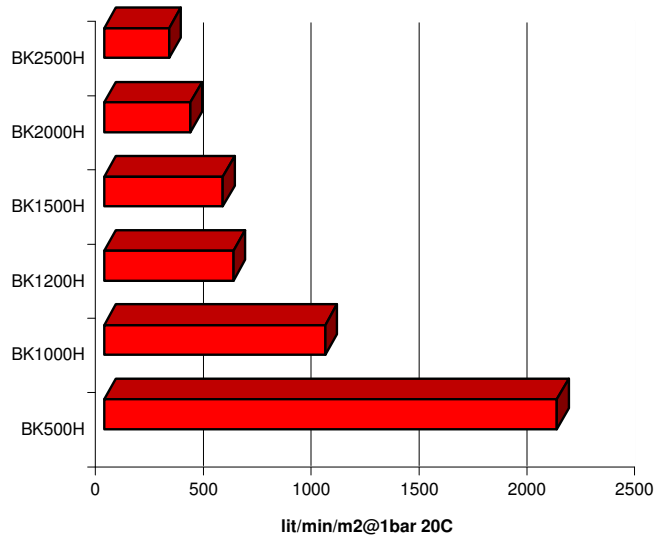
The BK range of high throughput sheets are characterised by their relatively low density, high voids volume, greater absorption capacity and increased depth.

They are specially formulated for the clarification of “difficult liquids” which would rapidly block other grades of filter sheets.

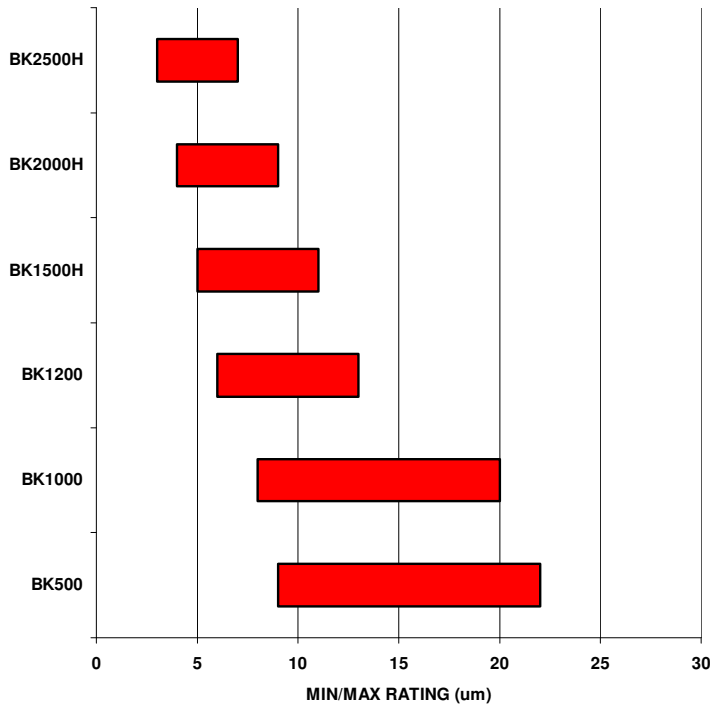
As a result, the BK series finds wide acceptance for filtration of viscous liquids and liquids containing high levels of proteinaceous hazes or semi solid contaminants.

By using a BK sheet in this type of application, you can gain the benefit of reduced filtration costs as well as excellent product clarity.

Water permeability of BK range



Typical particle retention values of BK range



We provide information and advice to the best of our knowledge. This information cannot be binding in every case due to the variety of applications, work methods and operating conditions. We, therefore, cannot assume liability for improper use.

Physical Data

Test Properties	Basic Weight	Thickness	Density	% Ash Content	Permeability	
Units	g/m ²	mm	g/cm ³	% Weight (g)	litres/min/ m ² @ 100kPa	litres/min/m ² @ 20kPa
BK500	1125	4.00	0.28	12	2080	445
BK1000 H	1150	4.00	0.31	25		210
BK1500 H	1550	4.90	0.30	43	480	57
BK2000 H	1450	4.65	0.31	52	410	35
BK2500 H	1480	4.25	0.34	52	320	19

* The above figures are nominal values for specifications contact your representative

Instructions for correct use

When inserting into the sheet filters handle the filter sheets with care to eliminate distortion or abrasion. Never use a damaged filter sheet.

Insertion of depth filter sheets:

To ensure correct use place the smooth side (has marking on) of the filter sheet against the filtrate plate (i.e. downstream). The rough side of the filter sheet faces the liquid to be filtered (i.e. upstream)

Filter preparation

Prior to the first filtration it is recommended where possible to pre-rinse the closed filter with approximately 50 litres of water per m² at 1.25 times the flow rate. During pre-rinsing check for leakage, re tighten to eliminate if necessary.

Sterilisation

Carlson range of BK filter sheets may be sterilised with saturated steam or hot water. The pressed filter pack has to be loosened slightly to ensure that the steam entirely sterilises the system. Final pressure should only be applied to the filter package once the entire filter has cooled down.

Sterilisation with steam:

Steam quality: Steam has to be free of foreign particles and impurities.
Temperature: max 134°C (saturated steam)
Duration: 20 minutes

Sterilisation with hot water:

Water quality: The water should be softened and be free of impurities
Temperature: 80° to 85°C
Duration: 20 minutes

Sheet flushing

The Carlson range of BK filter sheets can be forward and back flushed using softened water to extend the life and reduce the costs of filtration. This is however, very much dependent upon the application and filtration conditions

Regeneration procedure:

Cold rinsing: in direction of filtration for approx
5-10 minutes
Temperature: 15°C - 20°C
Hot rinsing: forward or reverse direction of filtration for
Approx 10 minutes
Temperature: 60°C - 80°C

Safety and disposal

Used under the correct conditions Carlson range of BK filter sheets have no known negative effects. Can be disposed of through the normal route observing local and official regulations. Consult MSDS for further information.

Storage

Store in a place which is dry, cool and free from strong odours.

Forms of supply

BK range of filter sheets are available in all customary sizes, hygienically shrink-wrapped and packed in cardboard boxes. Special formats are available on request.

Remarks

All Carlson Filtration Ltd filter sheets fulfil the requirements of BfR Recommendation Ch XXXVI, FDA CFR 21 176.170 and Food Chemical Codex standards, as applicable.

All our products are made in compliance with Quality Management System EN ISO 9001:2000



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