

# Technical Information

## High Performance IFAB filter range

The IFAB range of products is comprised of a comprehensive series of high performance filter sheets designed to meet the needs of a range of specialist applications.

All filter sheets within the IFAB range are formulated with several important features in mind:

All IFAB filter sheets comprise of an advanced blend of selected and processed bleached cellulose fibres combined with non-hazardous filter-aids and approved resins to produce filter media with superior filtration capabilities in conjunction with excellent wet and dry handling characteristics.

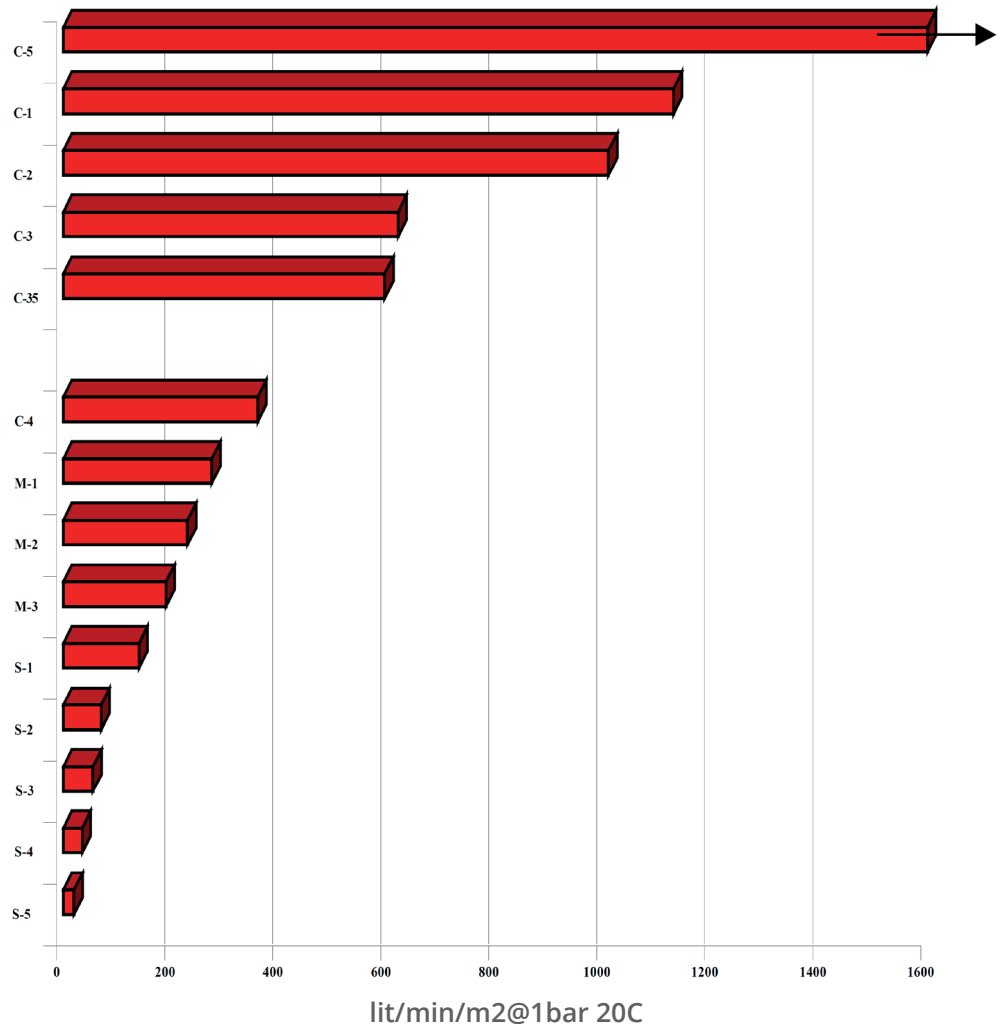
All the raw materials used in the manufacture of IFAB products are carefully selected and monitored to ensure their compatibility with beverages and food products.

All IFAB products are made to the same carefully controlled thickness-specification so that the different grades can be used in the same filter press configuration and seal thickness.

Edge leakage is reduced to a minimum because of the special IFAB filter sheet formulation and processing conditions.

IFAB filtration sheets are widely used in the filtration of products where they give outstanding clarity and stability combined with long sheet life and integrity.

Typical applications of the IFAB range include spirits, wines, beers and lagers where long life, sterility, stability and clarity are essential. Similarly, IFAB products have found wide acceptance in the filtration of syrups for soft drinks, gelatines and cosmetics, plus a diverse spread of chemical and pharmaceutical intermediates and final products.



## Water Permeability of IFAB Range

Skandinaviska **IFAB** Filtrering AB

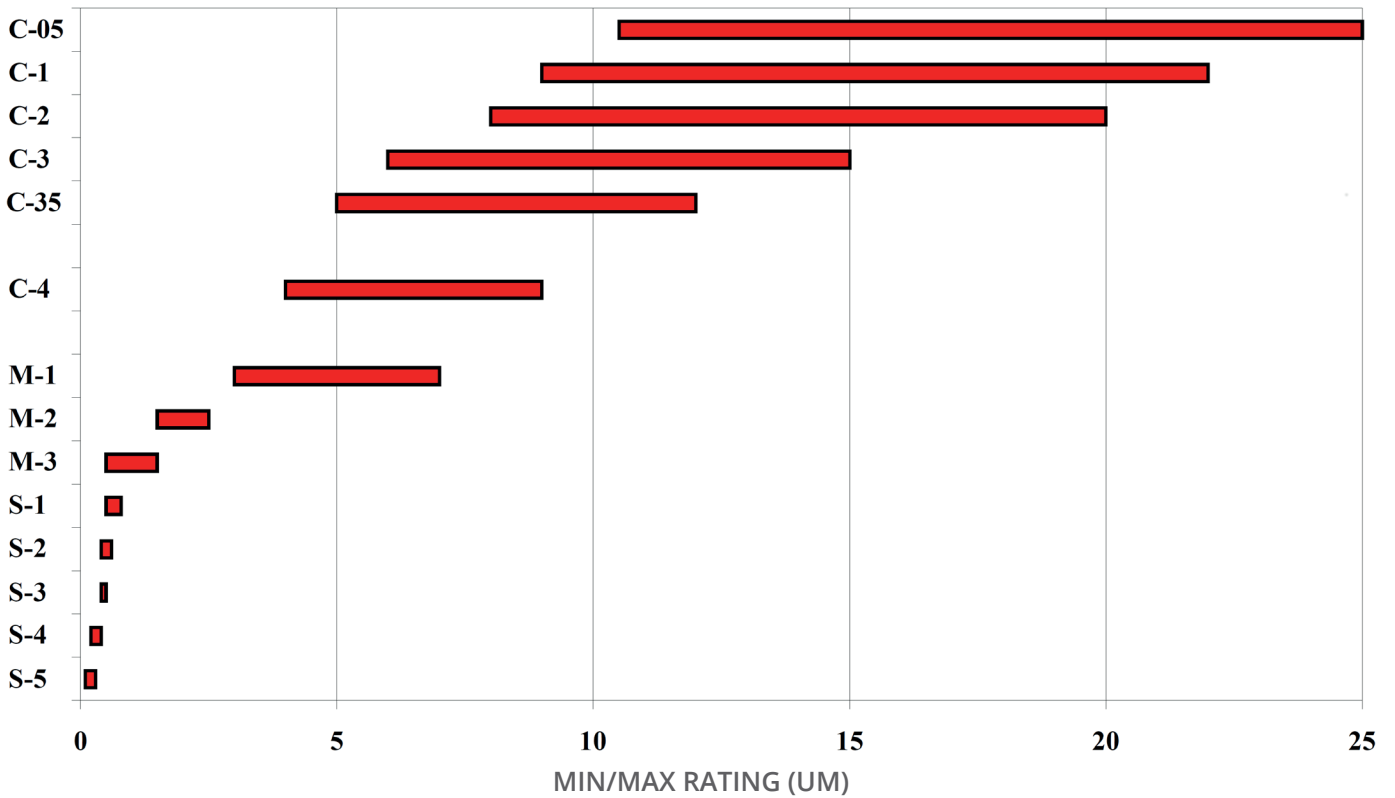
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Version: 1.0 © IFAB 2017

## Typical particle retention values of IFAB range



## Physical Data

\* the following figures are nominal values for specifications contact your representative

Test Properties	Basic Weight	Thickness	Density	% Ash Content	Burst Strength		Permeability		Wet Tensile	Trace Metals Extracts		
					Dry	Wet	litres/min/m <sup>2</sup> @ 100kPa	litres/min/m <sup>2</sup> @ 20kPa		Ca	Mg	Fe
Units	g/m <sup>2</sup>	mm	g/cm <sup>3</sup>	% Weight (g)	kPa	kPa			N/25mm	ppm	ppm	ppm
Method	CFWP 33	CFWP 32		CFWP 43	CFWP 42		CFWP 34		CFWP 44	CFWP 38		
C-05	750	3.60	0.21	1	200	20	4000	>370	-	10	1.5	0.7
C-1	1000	3.75	0.27	20	300	100	1130	227	30	10	2.0	2.0
C-2	1075	3.75	0.29	31	400	140	1010	156	40	12	2.0	2.5
C-3	1125	3.75	0.30	42	300	100	620	67	30	15	2.0	2.0
C-35	1125	3.75	0.30	52	200	70	595	52	20	20	4.0	2.5
C-4	1200	3.75	0.32	59	200	100	360	33	30	20	4.0	2.5
M-1	1200	3.75	0.32	58	200	100	275	23	30	25	3.0	2.0
M-2	1275	3.75	0.34	54	300	100	230	16	30	25	3.0	2.5
M-3	1300	3.75	0.35	55	300	50	190	12	30	30	3.0	2.5
S-1	1275	3.75	0.34	55	300	100	140	7.85	30	30	3.0	2.0
S-2	1350	3.75	0.36	58	300	140	70	5.25	35	20	3.0	2.0
S-3	1350	3.75	0.36	58	300	140	55	3.9	35	30	3.0	2.0
S-4	1425	3.75	0.38	58	300	140	35	2.7	35	7	2.5	1.5
S-5	1450	3.75	0.39	55	300	140	20	2.05	35	7	2.5	1.5

### Instructions for correct use

When inserting into the filter press 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 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 m<sup>2</sup> at 1.25 times the flow rate. During pre-rinsing check for leakage, re-tighten to eliminate if necessary.

### Sterilisation

Carlson range of IFAB 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: 80-85°C  
Duration: 20 minutes

### Sheet flushing

The IFAB range of filter sheets can be forward and back washed 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 IFAB range of filter sheets have no known negative effects and can be disposed of through 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

IFAB 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 IFAB 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 accordingly to the rules of Quality Management System EN ISO 9001:2000

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

