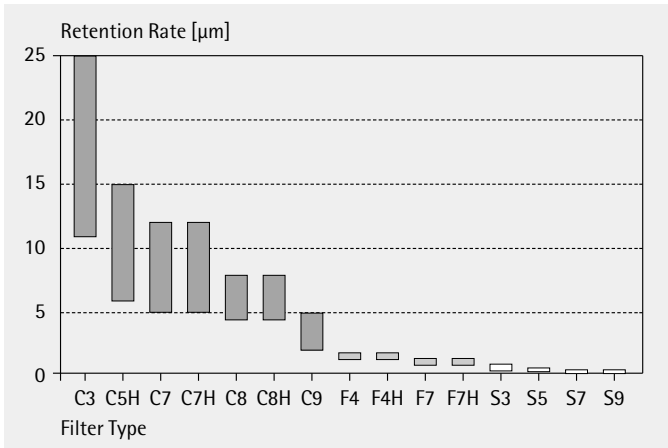




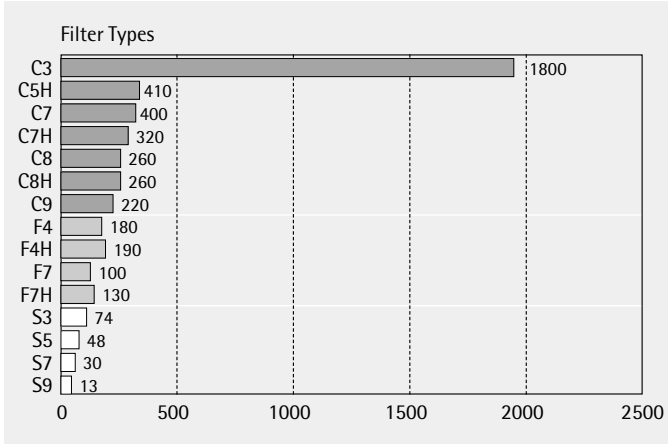
# Sartoclear

## Filter Sheets for Clarification and Microbe Retention

Retention Rates for Sartoclear



Water Flow Rate through Sartoclear at  $\Delta p = 1$  bar (14.5 psi)



Water Flow Rate [l/(m<sup>2</sup> × min)]

### Product Profile.

Sartoclear filter sheets are used for clarification and microberetentive filtration in the food and beverage industry, in the pharmaceutical industry, in biotechnology and in the chemicals industry.

The sheets are made of high-quality natural raw materials, such as cellulose, diatomaceous earth and perlite, and used in all conventional sheet or pad filters.

### Service Life.

The structure of the cellulose creates a 3-dimensional matrix. Thanks to the large void volume of up to 85%, Sartoclear filter sheets feature excellent throughputs and thus ensure economical filtration.

### Retention | Protective Effect.

The mechanical retention and the clarification effect of the Sartoclear sheets are enhanced by their positive zeta potential. As a result, Sartoclear additionally retains the smallest particles and colloids with a negative charge. Sartoclear effectively protects downstream filtration systems, thus cutting overall costs for consumables.

### Flexibility.

By increasing or decreasing the number of sheets used, filter sheet systems can be optimized to the specific flow rate required for each of your processes.

### Quality.

Sartoclear filter sheets are manufactured according to our DIN ISO 9001 certified quality management system. All production-specific parameters are monitored continuously during the manufacturing process.

The lot numbers of the filter sheets allow 100% traceability of the raw materials and the final products themselves.

## Technical Specifications

| Filter Material | Cellulose   Diatomaceous earth   Perlite   Wet-strength Materials   |                 |                   |
|-----------------|---|-----------------|-------------------|
| Retention Rates | Clarification   | Fine Filtration | Microbe-retentive |
|                 | C3 = 11 µm  | F7 = 1 µm       | S9 = 0,1 µm       |
|                 | C5H = 6 µm  | F7H = 1 µm      | S7 = 0.2 µm       |
|                 | C7 = 5 µm   | F4 = 1.5 µm     | S5 = 0.3 µm       |
|                 | C7H = 5 µm  | F4H = 1.5 µm    | S3 = 0.5 µm       |
|                 | C8 = 4 µm   |                 |                   |
|                 | C8H = 4 µm  |                 |                   |
|                 | C9 = 2 µm   |                 |                   |
|                 |   |                 |                   |
| Dimensions      | 40 cm × 40 cm   60 cm × 60 cm   100 cm × 200 cm   |                 |                   |
| Sterilization   | Hot-water sterilization (at 85–90°C for 20 min.)<br>or low-pressure steam (at 110°C, 0.5 bar for 20 min.) |                 |                   |

Please refer to the Directions for Use for further information on using the sheets.

## Ordering Information

| Retention Grade | 40 cm × 40 cm  | 60 cm × 60 cm  | 100 cm × 200 cm |
|-----------------|----------------|----------------|-----------------|
| C3              | 290C3-040040-N | 290C3-060060-K | on request      |
| C5H             | 290C5H040040-N | 290C5H060060-K | on request      |
| C7              | 290C7-040040-N | 290C7-060060-K | on request      |
| C7H             | 290C7H040040-N | 290C7H060060-K | on request      |
| C8              | 290C8-040040-N | 290C8-060060-K | on request      |
| C8H             | 290C8H040040-N | 290C8H060060-K | on request      |
| C9              | 290C9-040040-N | 290C9-060060-K | on request      |
| F4              | 290F4-040040-N | 290F4-060060-K | 290F4-100200-G  |
| F4H             | 290F4H040040-N | 290F4H060060-K | 290F4H100200-G  |
| F7              | 290F7-040040-N | 290F7-060060-K | 290F7-100200-G  |
| F7H             | 290F7H040040-N | 290F7H060060-K | 290F7H100200-G  |
| S3              | 290S3-040040-N | 290S3-060060-K | 290S3-100200-G  |
| S5              | 290S5-040040-N | 290S5-060060-K | 290S5-100200-G  |
| S7              | 290S7-040040-N | 290S7-060060-K |                 |
| S9              | 290S9-040040-N | 290S9-060060-K |                 |

Note: Sartoclear filter sheets, 100 x 200 cm, are additionally available with a notch Example for an Order Code: 290C9-100200-GSC

## Key to Order Codes

290 F 4 H 040 040 - N

|     |   |   |   |     |     |   |   |  |
|-----|---|---|---|-----|-----|---|---|--|
| 290 | F | 4 | H | 040 | 040 | - | N |  |
|     |   |   |   |     |     |   |   | Sartoclear Sheets Use  |
|     |   |   |   |     |     |   |   | C = clarification; F = fine filtration; S = Microbe-retentive filtration |
|     |   |   |   |     |     |   |   | 1 = coarse; 9 = very fine  |
|     |   |   |   |     |     |   |   | - = normal; H = high performance   |
|     |   |   |   |     |     |   |   | 040; 060; 100  |
|     |   |   |   |     |     |   |   | 040; 060; 200  |
|     |   |   |   |     |     |   |   | - = beverage   |
|     |   |   |   |     |     |   |   | Quantity per package G = 25; K = 50; N = 100                             |

Sartorius AG  
Weender Landstrasse 94–108  
37075 Goettingen, Germany

Phone +49.551.308.0  
Fax +49.551.308.3289

www.sartorius.com

USA +1.631.2544274  
UK +44.1372.737100  
France +33.1.69192100  
Italy +39.055.634041  
Spain +34.91.3586100  
Japan +81.3.33293366

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