

Pall's Seitz ZD (Zero DE) depth filter sheet series consists of pure cellulose filter sheet media and has been developed to meet the needs of the Food and Beverage industry for very pure depth filters without any DE (Diatomaceous Earth) or Perlite. The filter has been designed to provide excellent filtration performance with full respect to product quality.

Description

Seitz ZD flat filter sheets consist of highly fibrillated pure cellulose fibers and are available in multiple grades suitable for microbial reduction filtration as well as fine and clarifying filtration.

| Features | Benefits |
|---|--|
| 100% pure cellulose depth filter media: no inorganic components | <ul style="list-style-type: none"> • Very low impact on color and flavor • Very high purity, low extractables, low ion release • Up to 50% less water consumption for conditioning and regeneration • Extremely good sealing characters in filter presses, minimizing drip losses • 100% biodegradable material |
| Highly fibrillated cellulose fiber matrix | <ul style="list-style-type: none"> • Very strong filtration media • Easy to regenerate • High hold up volume for long filtration cycles • Very good particle and microbiological retention |

Applications

| Grade | Application |
|----------------------------------|---|
| Seitz-EK ZD Seitz-KS 80 ZD | <ul style="list-style-type: none"> • Microorganism reduction and yeast removal in beverages like wine, beer, fruit juices and liquid food • Filtration of juices and juice concentrate prior to membrane filtration • Microorganism reduction in sugar syrups • Microorganism reduction in enzyme solutions |
| Seitz-K 100 ZD Seitz-K 250 ZD | <ul style="list-style-type: none"> • Polishing filtration of wine and beer • Haze removal in beverages • Polishing filtration of olive oil obtaining additional water removal effect |

Seitz® ZD Series Depth Filter Sheets

For a Wide Range of Food and Beverage Applications



Seitz ZD Series Depth Filter Sheets

Materials of Construction

Sheet Media: Resin-bonded cellulose

Conditioning

Prior to use, it is recommended to rinse the filter with clean water at ambient temperature with > 50 L/m².

Quality

SEITZ-ZD filter sheets are manufactured according to ISO 9001 certified Quality Management System.

Food Contact Compliance

Please refer to the Pall website www.pall.com/foodandbev for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Regeneration

If the filtration process allows regeneration of the filter media, Seitz ZD filter sheets may be rinsed with clean water (in forward or reverse¹ direction) to increase total throughput, optimizing economic efficiency. Optimal regeneration of filter sheets installed in a plate and frame filter may be achieved with several rinses of cold water followed by hot water. An example protocol is shown below.

1. Rinse with cold water (ambient temperature) for 5 minutes.
2. Rinse with warm water (max. 60 °C / 140 °F) for 10 minutes.

Rinsing flow rate should be 1 ½ of the filtration flow rate with a counter pressure of 0.5–1 bar (7.2–14.5 psi).

¹When rinsing in the reverse flow direction it is critical to control particulate and microbial levels of the rinsing water, so that the filtrate side of the sheet is not contaminated. Water used for reverse flow flushes should be particle-free, and if the filter will not be sterilized prior to re-use the water should be free of microbes. Backwashing should be in a diagonal direction from outlet to inlet in a plate and frame filter. The actual time required may vary as a function of the process conditions.

Please contact Pall for recommendations on your specific filtration process as results may vary by product, pre-filtration and filtration conditions.

Available Sheet Formats and SAP Ordering Codes – Rectangular Sheets

| Seitz ZD Grade | Format | | | |
|----------------|------------------------------------|------------------------------------|--|--|
| | 400 mm x 400 mm (15.8" X 15.8") | 600 mm x 612 mm (23.6" X 24.1") | 1003 mm x 2016 mm OE G/K (39.5" X 79.5") | 1003 mm x 2016 mm ME G/K (39.5" X 79.5") |
| Seitz EK-ZD | 5307570 | 5304404 | 5304412 | 5304406 |
| Seitz KS 80 ZD | 5307572 | 5304405 | 5304413 | 5304407 |
| Seitz K 100 ZD | 5307573 | 5304408 | 5304414 | 5304410 |
| Seitz K 250 ZD | 5301106 | 5304409 | 5304415 | 5304411 |

OE G/K = Without slit, pre-folded, carton box packaging (Orion type filter)

ME G/K = With slit, pre-folded, carton box packaging (Niro type filter)

For other formats please contact Pall.

Seitz ZD series filter sheets are also available in SUPRAdisc™ II module and SUPRApak™ module configurations. Please contact Pall.

Recommended Flow Rates and Differential Pressures

| Seitz ZD Grade | Application | Flow Rate Wine and Other Beverages | Flow Rate Beer | Maximum Differential Pressure |
|----------------------------------|--|---|---|-------------------------------------|
| | | [L/m ² /h] (gal/ft ² /h) | [L/m ² /h] (gal/ft ² /h) | |
| Seitz EK-ZD Seitz KS 80 ZD | Fine filtration; filtration prior to final membrane filter | 525 (12.9) | 120 (2.95) | 1.5 (21.8) |
| Seitz K 100 ZD Seitz K 250 ZD | Polishing filtration; Particle filtration | 850 (20.9) | 150 (3.68) | 3.0 (43.5) |



Pall Corporation

Pall Food and Beverage

New York – USA
+1 516 484 3600 telephone
+1 866 905 7255 toll free

foodandbeverage@pall.com

Visit us on the Web at www.pall.com/foodandbev

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to www.pall.com/contact

Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

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