

# COSPA EDGE

## Major Applications

- Various high-concentration dispersions
- Various high viscosity liquids, paste
- Resin dissolving liquid
- Food and beverages



## Features

- Depth Pleated type filter with filtration grade slope
- Polypropylene filter media, molding parts
- No use of binder or surfactant
- Production with optimized manufacturing process

## Advantages

- High flow rate filtration is possible for liquids with a wide particle size distribution.
- Wide range of fluid compatibility
- Low extractables risk
- Excellent cost performance

## Specifications

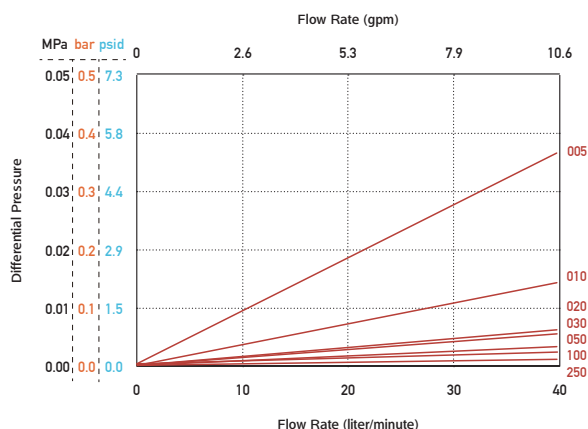
| Grades                             |                   | 005                                                     | 010 | 020 | 030 | 050 | 100 | 250 |
|------------------------------------|-------------------|---------------------------------------------------------|-----|-----|-----|-----|-----|-----|
| Micron Ratings (μm)                |                   | 0.5                                                     | 1.0 | 2.0 | 3.0 | 5.0 | 10  | 25  |
| E.F.A.                             |                   | 0.23m <sup>2</sup> /250mm                               |     |     |     |     |     |     |
| Media                              |                   | Polypropylene                                           |     |     |     |     |     |     |
| Materials                          | Core/Cage/Support | Polypropylene                                           |     |     |     |     |     |     |
|                                    | End Cap           | Polypropylene                                           |     |     |     |     |     |     |
| Maximum ΔP                         |                   | 0.49MPa at 20°C (71psi at 68°F)                         |     |     |     |     |     |     |
| Maximum Operating Temp             |                   | 80°C (176°F)                                            |     |     |     |     |     |     |
| Dimensions                         | Length            | 250/500/750 mm *0.5 μm: 250, 500mm only                 |     |     |     |     |     |     |
|                                    | O.D.              | 70.0mm                                                  |     |     |     |     |     |     |
|                                    | I. D.             | 25.6 (for 0, 5)/26.1 (for F)/29.5 (for 7) mm            |     |     |     |     |     |     |
| Adaptable Food Sanitation Standard |                   | All raw materials meet the requirement of FDA 21 CFR *1 |     |     |     |     |     |     |

\*If you need further information on specifications (length, end cap type, etc.), please contact us.

\*1 Applicable Gaskets and O-ring materials exclude EPDM.

## Differential Pressure vs Flow Rate

Fluid: Refined Water 20°C (68°F) / Cartridge Length: 250mm



## Particle Removal Efficiency

| Grades             | Particle Removal Efficiency (%) |       |       |       |       |       |       |
|--------------------|---------------------------------|-------|-------|-------|-------|-------|-------|
| Particle Size (μm) | 005                             | 010   | 020   | 030   | 050   | 100   | 250   |
| 0.5                | >99.9                           |       |       |       |       |       |       |
| 1.0                |                                 | >99.9 |       |       |       |       |       |
| 2.0                |                                 |       | >99.9 |       |       |       |       |
| 3.0                |                                 |       |       | >99.9 |       |       |       |
| 5.0                |                                 |       |       |       | >99.9 |       |       |
| 10                 |                                 |       |       |       |       | >99.9 |       |
| 25                 |                                 |       |       |       |       |       | >99.9 |

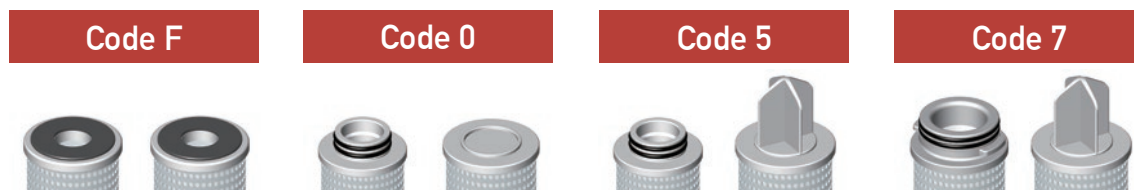
### Test Conditions

Equipment : Liquid Particle Counter  
 Filtration : Single Pass  
 Fluid : Refined Water  
 Flow Rate : 10 liter/minute  
 Dust : ALUMINA + BOEHMITE(E1P005)  
 ACFTD + LATEX Beads(E1P010~250)

## Ordering Information

| Product Type | Media Material    | Micron Rating                                                                                                                       | Length                                 | O-Ring Code                                                                                   | End Cap Code                                                                             |
|--------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>E1</b>    | <b>P</b>          | <b>005</b>                                                                                                                          | <b>10</b>                              | <b>E</b>                                                                                      | <b>F</b>                                                                                 |
|              | ▼                 | ▼                                                                                                                                   | ▼                                      | ▼                                                                                             | ▼                                                                                        |
|              | P = Polypropylene | 005 = 0.5 μm *2<br>010 = 1.0 μm<br>020 = 2.0 μm<br>030 = 3.0 μm<br>050 = 5.0 μm<br>100 = 10 μm<br>250 = 25 μm<br>*2 Only 250, 500mm | 10 = 250mm<br>20 = 500mm<br>30 = 750mm | E = EPDM<br>S = Silicone<br>V = FKM<br>T = FEP Encapsulated FKM (for 0, 5, 7)<br>PTFE (for F) | F = Flat Gaskets<br>0 = 2-222 O-Ring<br>5 = 2-222 O-Ring + Fin<br>7 = 2-226 O-Ring + Fin |

## End Cap Code



## Box Quantities

Filter Length Code = Box QTY

10 = 24pcs/Box  
 20 = 24pcs/Box  
 30 = 12pcs/Box

\*The contents of the catalog are subject to change without notice.

\*The performance data listed in the catalog are Typical values obtained under specific conditions based on our tests.

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Manufacturing is based on our Quality Management Systems that meet ISO9001 standards.

Scope  
 Design, Development, manufacture, and sales of filter cartridges, housings and filtration equipment.



4th Issue  
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