

# CMP Profile® II Filter Capsules



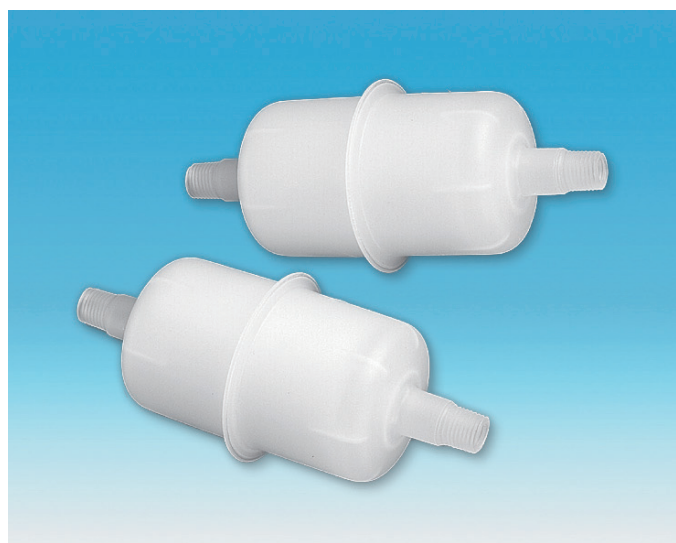
Data Sheet MECMP2CENb

## Description

CMP Profile II Filter Capsules are designed for the filtration of both oxide and metal slurries at chemical mechanical polishing (CMP) tools.

## Features & Benefits

- Compact completely disposable capsule consists of an all polypropylene Profile II filter element in a heat-welded polypropylene shell.
- Profile II filter elements are technologically advanced depth filters with absolute removal ratings. The unique construction with built-in prefiltration assures long service life and consistent high level performance with neither breakthrough of contaminants nor shedding of filter medium.
- The availability of absolute filter removal ratings, from 1 µm to 70 µm assures selection of the capsules to match the range of CMP slurries.
- CMP capsules retain aggregated material and foreign matter and have not been shown to alter slurry polishing characteristics.



## Materials of Construction

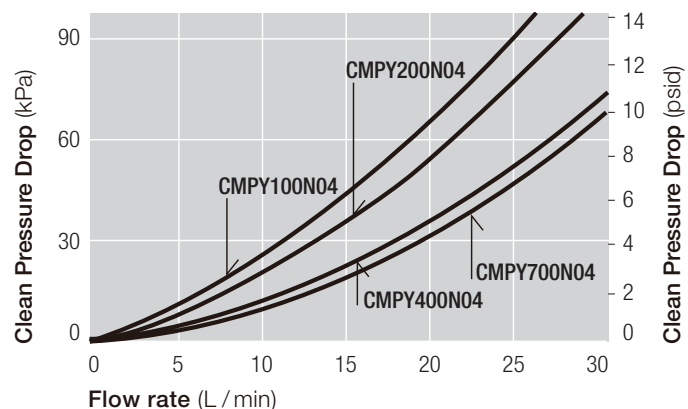
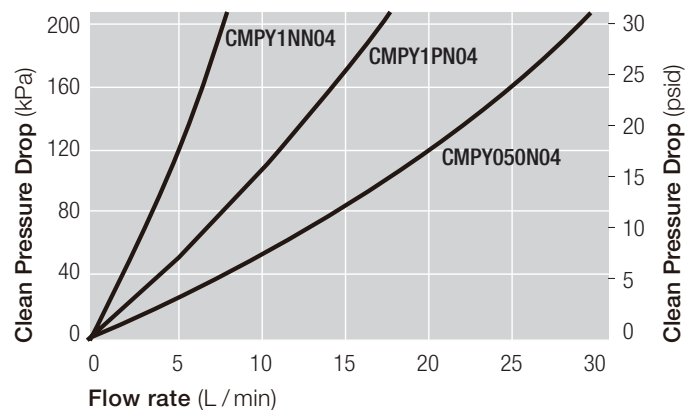
Components	Materials
Filter Media	Continuous polypropylene filament
Core	Polypropylene
Shell	Polypropylene

## Specifications<sup>1</sup>

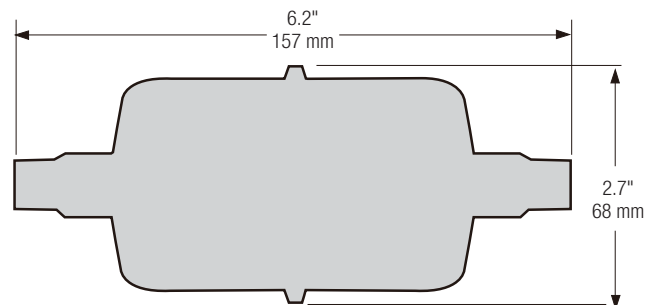
Removal Ratings	1 µm, 3 µm, 5 µm, 10 µm, 20 µm, 40 µm, and 70 µm (Profile filter removal ratings can be 5 – 10 times finer than traditional ratings for depth filters.)
Maximum Pressure	0.69 MPa @ 40 °C / 100 psid @ 100 °F
Maximum Differential Pressure	0.41 MPa @ 25 °C / 60 psid @ 77 °F 0.21 MPa @ 60 °C / 30 psid @ 140 °F
Maximum Temperature	60 °C / 140 °F
Connections	Inlet / Outlet : ¼" NPT

<sup>1</sup> Recommendations are based on long term tests in water. Compatibility with other fluids must be checked before use.

## Typical Flow Characteristics - 1cP fluid, 20 °C



## Dimensions



## Part Numbers / Ordering Information

Part Number	Removal Rating (µm)	Connection
CMPY1NN04	1	¼" NPT
CMPY1PN04	3	¼" NPT
CMPY050N04	5	¼" NPT
CMPY100N04	10	¼" NPT
CMPY200N04	20	¼" NPT
CMPY400N04	40	¼" NPT
CMPY700N04	70	¼" NPT

Unit conversion: 1 bar = 100 kilopascals



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