

SlurriGard™-N Series Cartridge Filters for Chemical Mechanical Polishing Slurry Filtration

SlurriGard™ filters are the next generation of pre-cleaned CMP slurry filter designed for advanced chemical mechanical polishing (CMP) applications

- ☑ **Designed for Slurry Applications.** SlurriGard™ series filter remove particles; aggregate, agglomerate and microgels that are disruptive to the CMP process. The particle size distribution of the desired slurry particles does not change after filtration.
- ☑ **Multiple Media Format For different slurries:-**
 - N Series > 0.5 um comprises of 5 to 8 layer of micro fiber media providing excellent capacity and a sharp filtration cut off curve. Pore size below 0.5um utilizes nano-fiber media for reliable and high performance with colloidal & ceria families of slurries.
 - DUO Series utilizes a **patented** pleated depth and wrapped downstream media offer advantages for gel forming slurries;
- ☑ **Patented* Pre-wet Technology:** For pore size below 0.5um, **patented** pre-wet packed SlurriGard filters provides quick start-up, slurry saving and improved filtration performance
- ☑ Graded density depth MiNano™ fiber to filter fluids containing different kind of suspended solids and able to provides excellent retention of agglomerates while allowing desired slurry particles to reach the surface of the wafer.
- ☑ Quality manufacturing that ensures filter-to-filter, lot-to-lot and performance.
- ☑ All polypropylene construction provides excellent compatibility with high and low pH slurries.



Filter Formats

- ☑ Cartridge filter, 10 inches and 20inches

Contact Mycropole if you want to ask for CMP filters in disposable capsule format used for Point of Use applications.

Applications:

- ☑ Slurry manufacturing filtration
- ☑ Point of use CMP (chemical mechanical polishing) filtration
- ☑ Slurry delivery system and recirculation loop filtration

Performance Specifications (Cartridge)

Pore size rating

N-Series: 0.1, 0.2, 0.3, 0.5, 1, 1.5, 3, 5, 7, 9, 11, 13 micron (µm)

Maximum differential pressure:

2.4 bard (2.45 kg/cm2d, 35 psid) - 21°C (70°F)

4 bard (4.08 kg/cm2d, 58 psid) - 80°C (176°F)

Maximum operating temperature:

80°C (176°F)

Materials

All Polypropylene construction

External Certification:



Table 1 : Efficiency (%) curve for CMPN series filter 1, 3, 5 microns

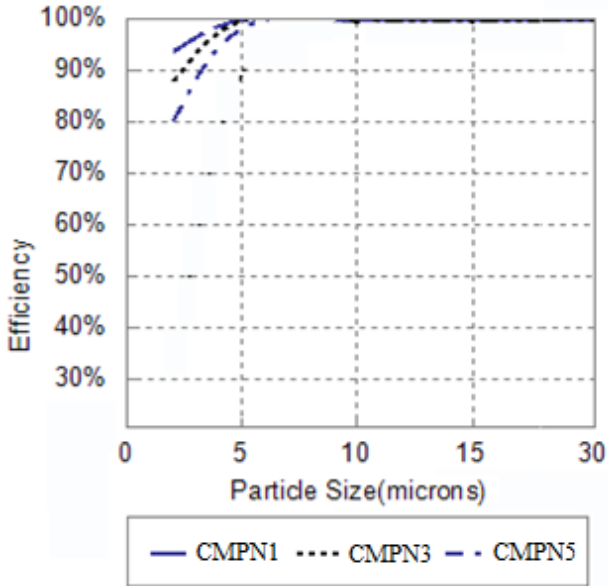


Table 2: Efficiency (%) curve for CMP-N series filter 0.1, 0.3, 0.7 and 1 microns

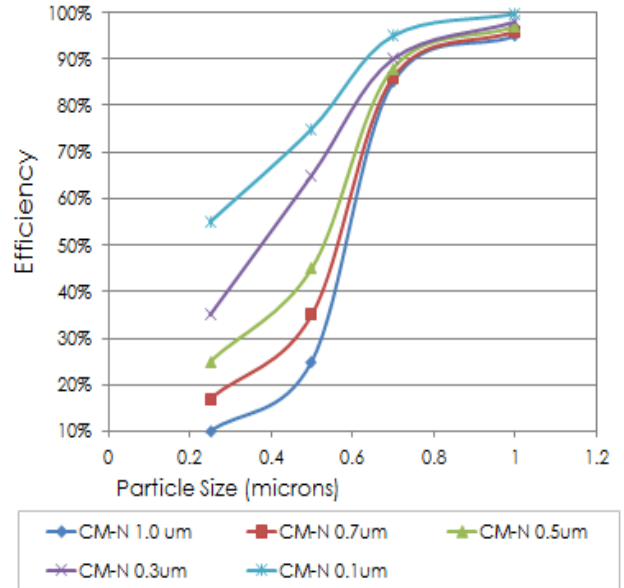
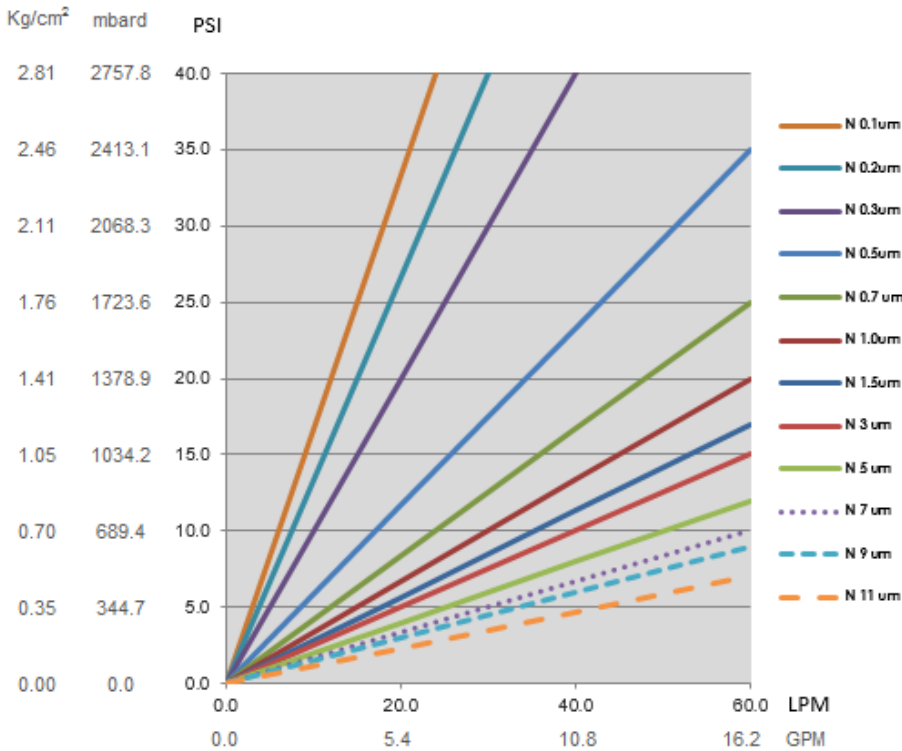


Table 3: SlurriGard™ series has high flow rate at low pressure drop.



Flow rate is for a 25.4 cm (10 in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Table 4: SlurriGard™ N Series Cartridge Filter Ordering Information.

Filter cartridge in 10 and 20 inches configurations are offered for high flow rate slurry manufacturing, slurry delivery system in semiconductor applications. Single box packaging.

Product Name	Pore Ratings	End Cap	Filter Length	O-ring/gaskets	PKG
Example: SlurriGard™ N Series Cartridge Filter, 0.1µm, Code 0, EPDM O-ring, 10 inch, prewet disinfected					
CM	N01	0	2	E	PD
CM	NX7 = X0.07 micron N01 = 0.1 micron C01 = 0.1 micron N02 = 0.2 micron N03 = 0.3 micron N05 = 0.5 micron N10 = 1.0 micron N1E = 1.5 micron PN3 = 3 micron PN5 = 5 micron PN7 = 7 micron PN9 = 9 micron N11 = 11 micron N13 = 13 micron	0 = 222 / Flat (SOE)	1 = 10 inch 2 = 20 inch	E = EPDM V = FKM or Viton	01 = 1/PK & std pre-flushed PD = Prewet technology with disinfection

Table 5: SlurriGard™ DUO Series Cartridge Filter Ordering Information.

Product Name	Pore Ratings	End Cap	Filter Length	O-ring	Pkg Qty
Example: SlurriGard™ DUO Series Cartridge Filter, CMPD 1µm, Code 0, EPDM O-ring, 10 inch, 1 pc/pack					
CM	PD10	0	1	E	01
CM	PD01 = 0.1 micron PD02 = 0.2 micron PD03 = 0.3 micron PD05 = 0.5 micron PD07 = 0.7 micron PD10 = 1 micron	0 = 222 / Flat (SOE)	1 = 10 inch	E = EPDM	01 = 1/PK & std pre-flushed PD = Prewet technology with disinfection

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* Patent Pending in Taiwan, USA, China, Singapore

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