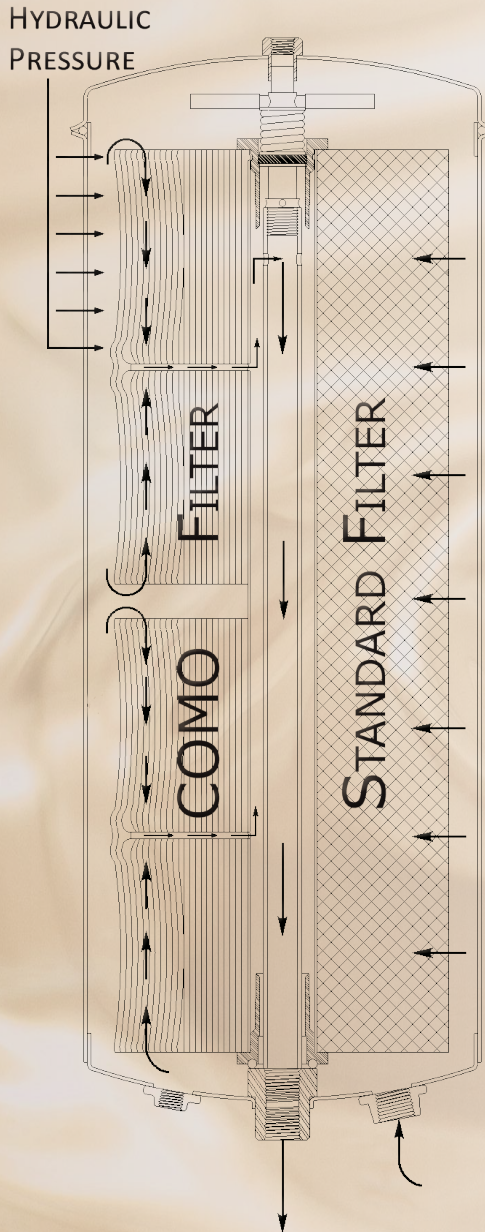


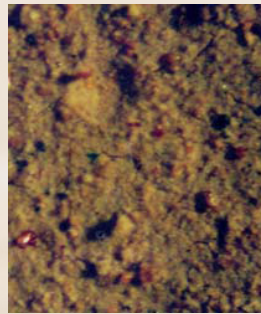
# COMO 6544 FILTER ELEMENT

The unique axial flow of COMO's patented depth-media filters allows for an enormous filter surface area, which gives the COMO 6544 excellent dirt-holding capacity and precision filtration down to two  $\mu\text{m}$ . Utilizing multi-pass filtration, our filters provide continuous contamination control, minimizing machine down-time and reducing fluid disposal & replacement costs.



## PHOTOMICROGRAPHS AT 100X: SEE THE DIFFERENCE!

BEFORE FILTRATION:  
ISO 22/21/20



5 PASS:  
ISO 18/17/13



10 PASS:  
ISO 15/13/10



## COMO 6544 FILTER ELEMENT SPECIFICATIONS:

- Beta Ratios: 4  $\mu\text{m(c)}$  > 250  
6  $\mu\text{m(c)}$  > 500  
14  $\mu\text{m(c)}$  > 1000  
25  $\mu\text{m(c)}$  > 2500
- Nominal rating of 2  $\mu\text{m}$
- Moisture removal to 20 ppm\*
- Water absorption up to 1 gallon\*
- Dirt loading capacity up to 20 lbs\*
- 7.5" diameter x 20" height
- Total media surface area of 3000 ft<sup>2</sup>



**COMO**  
FILTRATION SYSTEMS

TURNING DOWN TIME INTO ON TIME

\*Ultimate dirt and water removal-efficiency and holding-capacity changes based upon specific applications, individual results may vary.

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# COMO 6544 APPLICATION

The 6544 filter has four segments, and we designed it to fit in our C-1000 series filter housing—as well as equivalent competitive housings. The 6544 is made of cellulose, and excels at filtering lube oils such as engine crankcase oil, gear oil, and machine tool cutting oil. This particular filter has a nominal filtration rating of 2 micron. Typical applications would involve oils with a viscosity ranging from 32-150 cSt (150-800 SUS) and temperatures up to 270 °F.

## DIRT HOLDING CAPACITY:

In some applications, the Como 6544 (and other 6500-series filter elements) has demonstrated dirt holding capacities in excess of forty pounds\*. However, in typical applications, you can expect a solid-contaminant loading of ten to twenty pounds. Since the solid holding capacity of an element is determined by factors such as the element configuration, fluid flow-rate, particle size distribution, water content, and operating pressure, it is difficult to estimate the ultimate filter element holding-capacity for a specific application.

## WATER ABSORBENCY:

The COMO 6544 filter element has excellent water absorption qualities, and can keep water contamination to 20 ppm or below\*. You can expect the COMO 6544 filter element to remove and retain up to one gallon of water over its lifetime\*. This property makes COMO filter elements ideal for hydraulic filtration systems, especially for dirt and moisture intolerant servo, precision, and high-reliability hydraulic systems.

## BETA RATIO:

Filtration beta ratios are calculated by dividing the upstream (unfiltered) particle count for a given micron rating by the downstream (filtered) particle count for that micron rating. This, in effect, shows the filtration efficiency for particles of all different sizes. Beta ratios are standardized, allowing you to compare filtration performance from one manufacturer to another.

However, when using beta ratios to compare filter performance, you must take into consideration the differences between standard filters and depth filters, like the COMO 6544. Standard filters often have high beta ratios; however, they quickly load with contaminant, causing a spike in differential pressure that leads to short element life. On the other hand, depth filters have both high beta ratios and larger dirt holding capacities, which allows for continued performance over a longer period.

Typical beta ratios for a 6544 filter element:

.1-1	µm(c)	<	25
1-2	µm(c)	>	25
3-5	µm(c)	>	250
5-10	µm(c)	>	500
10-25	µm(c)	>	1000
25-50	µm(c)	>	5000

## FLOW RATE:

The recommended flow rate for the COMO 6544 filter element is 2.5 GPM in light hydraulic oil. In heavier oils, flow may be 0.5-1.5 GPM. In very light oils, such as fuel oils, the filter may be used at flow rates as high as 5 GPM. As a general guideline, the flow rate at normal operating temperature should be such that the differential filter pressure on a new element is in the range of 15-30 psi. Selecting a combination of filters and flow rates to yield startup-pressures in this range will result in maximum filter life.



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