



# GORE® Filtration Products

MEMBRANE FILTER SOCKS FOR THE RECAUST PLANT

PULP INDUSTRY

## Higher Throughput Superior Value

Since 1986, GORE® Membrane Filter Socks have been supplying superior value to Kraft pulp mill facilities around the world. Made by the inventor of GORE-TEX® Fabrics, these tubular membrane filters provide efficient clarification of white liquor and lime mud washing. GORE® Membrane Filter Socks are constructed with the membrane on the outside, allowing the filtration to take place on the membrane's surface. This provides easy cake release and requires less backwash volume than conventional filter socks. They can effectively remove unreacted lime particles and dregs as well as the suspended calcium carbonate solids in the liquor.

The unique structure of the membrane imparts an extremely uniform porosity, providing a fine particulate capture rate greater than other products. This reduces the impact of calcium carbonate scaling on digester liquor heaters. It also eliminates evaporator tube fouling, and reduces costs of chemical consumption in the bleach plants. GORE® Membrane Filter Socks offer a range of porosity values to fit your process requirements.

### Higher Throughput Capabilities

Less backwash volume is required so production resumes faster. This results in lower pump speeds and operating pressures as well as less stress on the filter socks.

### Fewer Acid Washings

With this "surface" type filtration, the filter socks maintain their permeability. Particles don't become embedded in the felt and blind the filter sock. Typically, the time between acid washings is doubled.

### Better Able to Handle Upset Conditions

Low friction GORE® membrane filters make it much easier to handle overliming and dregs excursions. This allows you to operate at higher causticizing efficiencies and maximize mill operations.

### Longer Filter and Pump Life

High durability materials increase filter life while lower flow rates improve pump life.

### Recausticizing Plant is Easier to Run

Better filter performance improves overall process due to interdependency of equipment.

#### W. L. GORE & ASSOCIATES, INC.

101 Lewisville Road, Elkton, MD 21922  
Toll-Free: 1.800.431.GORE (4673)  
Phone: 410.392-3300 • Fax: 410.398-6624

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#### Key Features

- Less Backwash Needed
- Maintains Permeability
- Membrane Surface
- High Durability Filter
- Better Filter Performance
- Installation Expertise

#### Key Benefits

- Higher Throughput
- Fewer Acid Washings
- Handles Upset Conditions Better
- Longer Filter & Pump Life
- Easier Recausticizing
- Faster Start-ups

### Tight Tolerances Eliminate Bypassing

GORE® Membrane Filter Socks are manufactured to tight dimensional tolerances to ensure proper fit to your existing perforated tubular elements. It has a welded, longitudinal seam and a unique, very resilient EPDM o-ring that essentially eliminates any bypassing. These filter socks are installed in a similar fashion to polypropylene felt filter socks. The filter sock is first installed through the opening in the tubesheet and then the perforated tubular support element is lowered into the sock. We offer installation procedures and on-site supervision by one of our specialists for the first set of filters and additional installations if requested.

[www.gore.com/filtration](http://www.gore.com/filtration)