



FILTRATION FABRICS

PURPOSE AND APPLICATION

Provide Drainage, Filtration, Reinforcement and Separation

Drainage: Landscaping

- Water passes through fabric while soil is held in place/prevents loss of fill material
- Support growth of vegetation root structure by allowing water to flow at a restrained rate while keeping soil in place

Reinforcement: Agriculture, Landscaping

- Soil stabilizer to reinforce soil or other material; improving its load bearing strength
- Slope stability

Filtration: Industrial

- Allows water or air to flow through while preventing movement of larger particles that could clog systems

Separation: Industrial

- Separate different soil layers or materials with distinct properties
- Prevent mixing and maintain integrity of each layer

FUNCTIONS AND MEASUREMENTS

Measurements that Indicate Best Product for Application

Flow of air / water or lack of: Amount of fluid passing through fabric

- Permeability: Volume of air / water that passes through the fabric in 1 second
- Permittivity: Time required in seconds for a volume of air/ water to pass through the fabric

Strength: Measures of Force required to cause fabric to fail

- Burst / Puncture: Hole in the fabric (lbf or psi)
- Tear: A tear expands across width / length of fabric (lbf)
- Tensile / Elongation: Stretch to failure, caused by strain from pulling or water pushing fabric (lbf)

Apparent Opening Size: Will containments pass through the opening?

PRODUCT OPTIONS

Almost any Industrial Textile can be used as a Filter
 This chart gives suggestions by fabric type and needs

See fabric specifications for exact product information.

| Textiles | Material | Construction | Needs | | | |
|--------------|---------------|----------------|----------|------------|---------------|------------|
| | | | Drainage | Filtration | Reinforcement | Separation |
| Containment | PP | Woven | X | X | X | |
| Ground Cover | PP | Circular Weave | | X | X | X |
| Ground Cover | PP | Flat Weave | X | X | X | |
| Shade | PP | Woven | X | X | X | |
| Shade | PP | Woven | X | X | X | |
| Truck Cover | PP | Woven | X | X | | |
| Truck Cover | PP Calendered | Woven | | X | X | X |