<table>
<thead>
<tr>
<th>Filtration Medium</th>
<th>Sample Application</th>
<th>Hydrophilic or Hydrophobic</th>
</tr>
</thead>
</table>
| MCE               | 1) Gas particulate and bacteria filtration  
                      2) Oil particulate and bacteria filtration  
                      3) Alcohol particulate and bacteria filtration  
                      4) Other solvent particulate and bacteria filtration | Hydrophilic                |
| CA                | 1) Aqueous protein solutions as low protein binding  
                      2) Groundwater filtration as Nitrate-free | Hydrophilic                |
| Nylon             | 1) Electric semiconductor industrial water filtration  
                      2) Chemicals filtration  
                      3) Beverage filtration | Hydrophilic                |
| PES               | 1) Sterile filtering protein solution  
                      2) Tissue culture media filtration  
                      3) Tissue culture additive filtration | Hydrophilic                |
| PVDF              | 1) Gas filtration  
                      2) Vapor filtration  
                      3) High-temperature filtration  
                      4) Food industry  
                      5) Medicine filtration | Hydrophobic                |
| PTFE-B            | 1) Organic solvent with strong chemical causticity filtration  
                      2) strong acid solvent filtration  
                      3) Alkali solvent filtration | Hydrophobic                |
| PTFE-L            | 1) Inorganic solvent with strong chemical causticity filtration  
                      2) Mixed solvent filtration in HPLC(Acetonitrile/Water)  
                      3) Alkali solvent filtration | Hydrophilic                |
Membrane Filter Quick Pick Reference Chart

Sample

Membrane

Liquids

Air

Aqueous

- Cell Culture Media
  - PES
- General Purpose Microbiology
  - Nitrocellulose
- Particle Analysis Microbiology
  - Mixed Cellulose Ester
- Particle Analysis SEM Epifluorescence
  - Track-Etch
- General Purpose Filtration Low Protein Binding Applications
  - Cellulose Acetate/PVDF
- Solvent Mixtures
  - Nylon

Solvents

- Non-polar (Hydrophobic)
  - PTFE
- Polar (Hydrophilic)
  - PTFE
  - Nylon

Mixed Cellulose Ester