

MICROFILTRATION - Technical Data

MLP 16 – WETTING PROCEDURE - HYDROPHOBIC MEMBRANE CARTRIDGES

The recommended test solution for wetting Hydrophobic membrane cartridges prior to integrity testing is a 60/40 isopropyl alcohol (IPA) water mix. The surface tension of the IPA/water solution is approximately 25 dynes/cm which does not always completely wet hydrophobic membrane in static conditions. Ideally a liquid with a surface tension of less than 18 dynes/cm is required to do this, the use of such liquid is, however, not always practicable. Therefore to ensure sufficient wetting using IPA/water the following procedure should be followed.

Pre-Wetting Procedure (250mm Cartridge)

1. Fill a 2 litre measuring cylinder with approximately 1400ml of 60/40 IPA/water.
2. Insert a rubber bung into the open end of the cartridge (the rubber bung must have a 300-500mm length of tubing attached).
3. Slowly immerse the **dry** cartridge closed end first to a depth of 100-150mm below the surface of the test fluid. The resulting differential pressure is sufficient in achieving wetting of the Hydrophobic membrane.

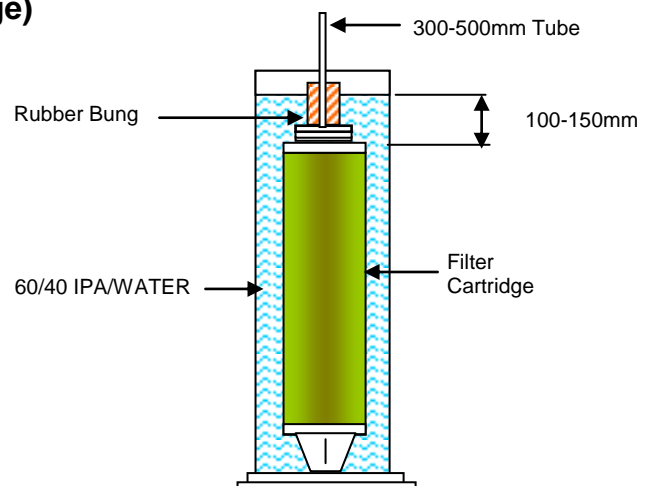


Fig 1

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NOTE:

It is important to ensure that the cartridge is dried before re-testing during process use.

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