

MICROPORE



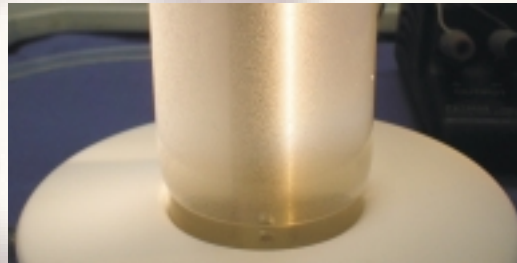
DISPERSION CELL



- **THE MICROPORE DISPERSION CELL** provides liquid drops with a very narrow size distribution dispersed in a second immiscible liquid phase
- Polymer particles may be produced from an initial dispersion of monomer drops that are then polymerised in the cell or in a separate reactor.
- Typical modal drop sizes obtained from the cells are between 10 and 200 microns - depending on the shear applied and other system conditions.
- The principle of operation is dispersion through a membrane, where the shear in the system breaks off the drops as they emerge from the membrane pores.
- The cell is supplied with either hydrophobic or hydrophilic membranes that, in many applications, can be simply washed and reused. Membranes are also available separately.



Cell components

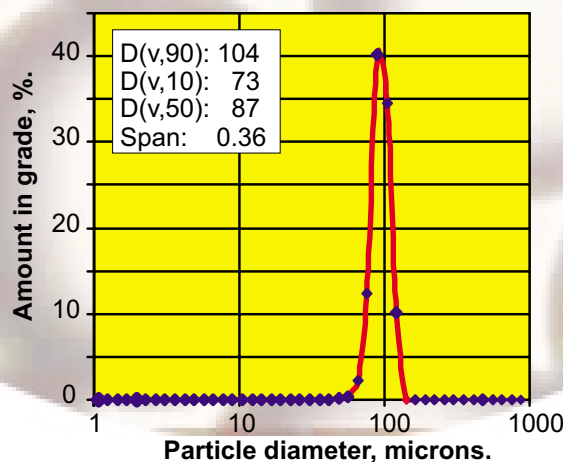


Monosized drops



Membranes & seals

- Cell components in liquid contact are PTFE, stainless steel & glass. Alternatives are available. The membranes have a variety of surfaces.



- The cell comes complete with a mains transformer to control the applied shear, dispersed phase reservoir, model test liquids and full operating instructions. Process-scale equipment is available, scaled-up from Dispersion Cell test data.

For more information, visit us at:

www.micropore.co.uk/dispersion

TECHNOLOGIES