

**Effect of Polymeric Surface-Active Agent in the Phase Inversion Step of Asymmetric Membrane Preparation**

J. M. GOHIL, A. BHATTACHARYA and P. RAY\*

Central Salt and Marine Chemicals Research Institute, G. B. Marg, Bhavnagar-364002, Gujarat.

**Abstract** — Present investigation aims at the studies on the variation of surface tension of a phase inversion medium for Polysulfone (PSf) membrane having polyvinyl alcohol (PVA) (Mw 14,000) as a surface-active additive in the gelling bath. Dimethyl formamide (DMF) and water are functioning as solvent and non-solvent for PSf. The entrapment of PVA during gelling of PSf results in a fall in the concentration of PVA in the bulk as well as at the surface which is reflected in the uprising surface tension of the system and the rate of enhancement is dependent upon both the concentration of PSf and PVA.

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