

Polyelectrolyte & Flocculants

Thermax has a range of polyelectrolytes for raw water clarification, effluent treatment, colour removal and a range of process applications.

Polyelectrolytes are water-soluble polymers carrying ionic charge along the polymer chain. Depending upon the charge, these polymers are anionic or cationic. Polyelectrolytes are available in a wide range of molecular weights and charge densities. Homo polymers of acrylamide are also included in the family of polyelectrolytes though they do not carry any charge. These are called nonionic. Polyelectrolytes have got a wide range of applications right from water purification, oil recovery, colour removal, paper making, mineral processing, etc. Polyelectrolytes are both flocculants as well as de flocculants depending upon the molecular weight. A flocculant is essentially a solid liquid separating agent while a de flocculant is a dispersing agent.