

Water Soluble Polymers for Industrial Applications, Compounding, Formulation and Manufacturing

Description:

Water-soluble polymers, which perform various useful functions such as thickening, gelling, flocculating, rheology modifying and stabilizing in any given application, are used for a wide variety of applications including food processing, water treatment, paper, enhanced oil and natural gas recovery, mineral processing, detergents, textiles, personal care products, pharmaceuticals, petroleum production, and surface coatings.

Water-soluble polymers can be categorized into the following three groups:

- Synthetic, which are produced by the polymerization of monomers synthesized from petroleum- or natural gas-derived raw materials
- Semisynthetic, which are manufactured by chemical derivatization of natural organic materials, generally polysaccharides such as cellulose
- Natural, including microbial-, plant- and animal-derived materials

Water-soluble polymers are used primarily to disperse, suspend (thicken and gel), or stabilize particulate matter. However, they may perform any of the following functions:

Binding

Coagulating

Dispersing, suspending, stabilizing

Film forming

Flocculating

Lubrication and friction reduction

Rheology modification and control

Thickening, gelling

For more details download PDF file

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