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

Description:

Water-solublepolymers, which perform various useful functions such as thickening, gelling,flocculating, rheology modifying and stabilizing in any given application, areused for a wide variety of applications including food processing, watertreatment, paper, enhanced oil and natural gas recovery, mineral processing,detergents, textiles, personal care products, pharmaceuticals, petroleumproduction, and surface coatings.

Water-solublepolymers can be categorized into the following three groups:

- Synthetic, which are produced by the polymerization ofmonomers synthesized from petroleum- or natural gas–derived raw materials
- Semisynthetic, which are manufactured by chemicalderivatization of natural organic materials, generally polysaccharides such ascellulose
- Natural, including microbial-, plant- and animal-derivedmaterials

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

Binding

Coagulating

Dispersing, suspending,stabilizing

Film forming

Flocculating

Lubrication and frictionreduction

Rheology modification andcontrol

Thickening, gelling

For more details download PDF file

Keywords: Water Soluble Polymers for Industrial Applications, Water Soluble Polymers Compounding, Water Soluble Polymers Formulation, Water Soluble Polymers Manufacturing, Soluble, Polymers, Synthetic, Derivatives, Cellulose, Rheology, Thixotropy, Reducible, Maleinized, Acrylic, Polyesters, Silicone, Polymers, thickening, gelling, flocculating,

Created At: 09 Aug, 2016