

Water soluble polymers

By

Vrinda G Rajendran

Roll no, 24

Water Soluble Polymers

Peter A. Williams



Water Soluble Polymers:

The Complete Book on Water Soluble Polymers NPCS Board of Consultants & Engineers, 2009-10-01 Water soluble polymers cover a wide range of highly varied families of products of natural or synthetic origin and have numerous uses. A water soluble polymer is a polymer that can be diluted in water with or without the assistance of co solvents and neutralizing agents to form transparent solutions. They may be classified into two types: totally synthetic polymers and natural products together with their chemically modified derivatives and further can be grouped into three main headings: naturally occurring, semi-synthetic and completely synthetic polymers. The water based polymers are quick drying, non-inflammable, having mild odour and more environmental acceptability than any other polymers. Most conventional coating polymers at present can be produced in a form that will allow them to be solubilized in water. These include alkydes, polyesters, acrylics, epoxies. There are various types of polymerization methods of water soluble polymers such as bulk polymerization, solution polymerization, copolymerization, emulsion polymerization and suspension polymerization. Water soluble polymers are used widely as stabilizers or protective colloids in emulsion polymerization. Its most common use are gum acacia, starch (either etherified or in its degraded form), dextrin, polyvinyl alcohol and hydroxyethyl cellulose. Polymers find many applications in oil recovery and production including areas such as drilling fluids, cementation of well bore, reservoir fracturing, controlling fluid flow in the reservoir and multistage processes of oil production and refining. The water soluble polymers market encompasses several categories including starch, cellulose, ethers, polyvinylacetate, polyvinyl alcohol and other synthetic water soluble polymers. The starch market is the largest. This book basically deals with flow characteristics of water soluble polymer solutions, emulsion polymerization, water reducible resins, silicone modified alkyds and polyesters, cross linking of water soluble coatings, formulation of water soluble coatings, trouble shooting with water soluble polymers, acrylic solution resins, polyvinylpyrrolidone, commercial uses, compounding and formulating adhesives, methods of polymerization, methods for polymerization of acrylamide, fabrication of water soluble polymers, excluded volume interactions of neutral polymers etc. The book covers classification of water soluble polymers, processes, properties, uses and applications of water soluble polymers with lot of other information. This book will be very resourceful for new entrepreneurs, existing units, technocrats, researchers and technical libraries.

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Chemistry and Technology of Water-Soluble Polymers C.A. Finch, 2013-06-29 To the biochemist water is of course the only solvent worthy of consideration because natural macromolecules exhibit their remarkable conformational properties only in aqueous media Probably because of these remarkable properties biochemists do not tend to regard proteins nucleotides and polysaccharides as polymers in the way that real polymer scientists regard methyl methacrylate and polyethylene The laws of polymer statistics hardly apply to native biopolymers Between these two powerful camps lies the No man s land of water soluble synthetic polymers here we must also include natural polymers which have been chemically modified The scientific literature of these compounds is characterized by a large number of patents which is usually a sign of little basic understanding of know how rather than of know why Many of the physical properties of such aqueous solutions are intriguing the polymer may be completely miscible with water and yet water is a poor solvent in terms of polymer parlance kiny of the polymers form thermorever sible gels on heating or cooling The phenomena of exothermic mixing and salting in are common features of such systems neither can be fully explained by the available theories Finally the eccentric behaviour of polyelectrolytes is well documented Despite the lack of a sound physico chemical foundation there is a general awareness of the importance of water soluble vinyl acrylic polyether starch and cellulose derivatives as witnessed again by he vast patent literature *Water Soluble Polymers* ,1998 *Water Soluble Polymers* Zahid Amjad, 1998-10-31 This volume contains a series of papers originally presented at the symposium on Water Soluble Polymers Solution Properties and

Applications sponsored by the Division of Colloids and Surface Chemistry of the American Chemical Society The symposium took place in Las Vegas City Nevada on 9 to 11th September 1997 at the 214th American Chemical Society National Meeting Recognized experts in their respective fields were invited to speak There was a strong attendance from academia government and industrial research centers The purpose of the symposium was to present and discuss recent developments in the solution properties of water soluble polymers and their applications in aqueous systems Water soluble polymers find applications in a number of fields of which the following may be worth mentioning cosmetics detergent oral care industrial water treatment geothermal wastewater treatment water purification and reuse pulp and paper production sugar refining and many more Moreover water soluble polymers play vital role in the oil industry especially in enhanced oil recovery Water soluble polymers are also used in agriculture and controlled release pharmaceutical applications Therefore a fundamental knowledge of solution properties of these polymers is essential for most industrial scientists An understanding of the basic phenomena involved in the application of these polymers such as adsorption and interaction with different substrates i.e. tooth enamel hair reverse osmosis membrane heat exchanger surfaces etc is of vital importance in developing high performance formulations for achieving optimum efficiency of the system

Handbook of Industrial Water Soluble Polymers Peter A. Williams, 2008-04-15 Natural and synthetic water soluble polymers are used in a wide range of familiar industrial and consumer products including coatings and inks papers adhesives cosmetics and personal care products They perform a variety of functions without which these products would be significantly more expensive less effective or both Written for research development and formulation chemists technologists and engineers at graduate level and beyond in the fine and specialty chemicals polymers food and pharmaceutical industries the Handbook of Industrial Water Soluble Polymers deals specifically with the functional properties of both natural and synthetic water soluble polymers By taking a function based approach rather than a polymer specific approach the book illustrates how polymer structure leads to effect and shows how different polymer types can be employed to achieve appropriate product properties

Water-soluble Polymers J. Edward Glass, 1986 Brings together the diverse experience of those working with and using water soluble polymers Gives a detailed description of important advances in inversion emulsion polymerization of synthetic water soluble monomers Reports on the tremendous increase in research and the state of the art in fundamental concepts and application performance of water soluble polymers Looks at the solution properties of some important carbohydrate polymers and examines recent developments in the characterization of water soluble polymers by chromatographic and NMR techniques

Water-soluble Polymers J. Edward Glass, American Chemical Society. Meeting, 1986

Water-Soluble Polymers for Petroleum Recovery G.A. Stahl, D.N. Schulz, 1988-09-01 We both found ourselves working on water soluble polymers for oil recovery in the early 1980s Our previous backgrounds involved the synthesis and characterization of hydrocarbon polymers for everything from elastomers to plastics As such we were largely unprepared for the special difficulties

associated with water soluble polymers in general and their use in enhanced oil recovery EOR in particular Oil patch applications have a jargon and technical heritage quite apart from that usually experienced by traditional polymer scientists At that time no books were available to help us get up to speed in the polymers for oil recovery field Since then there have been a number of symposia on this topic but still few books especially from the polymer rather than the field applications perspective Synthetic water soluble swellable polymers have commercial importance in such application as water treatment cosmetics and foods Yet these polymers have not received the scientific technological attention they deserve The application of water soluble polymers to oil recovery has in fact highlighted the need for new water based materials and a fundamental understanding of their structure and use Interest has been spurred not only for the potential economic credits from enhanced oil recovery and an augmented polymers business but also by the challenge of designing water soluble polymers for harsh environments

Water-soluble Polymers Shalaby W. Shalaby, George Bergen Butler, American Chemical Society. Meeting, 1991

Water-soluble Polymers Norbert M. Bikales, 1973

Water-soluble Polymers, 1972

Water-Soluble Polymers for Petroleum Recovery G.A. Stahl, D.N. Schulz, 2012-11-30

We both found ourselves working on water soluble polymers for oil recovery in the early 1980s Our previous backgrounds involved the synthesis and characterization of hydrocarbon polymers for everything from elastomers to plastics As such we were largely unprepared for the special difficulties associated with water soluble polymers in general and their use in enhanced oil recovery EOR in particular Oil patch applications have a jargon and technical heritage quite apart from that usually experienced by traditional polymer scientists At that time no books were available to help us get up to speed in the polymers for oil recovery field Since then there have been a number of symposia on this topic but still few books especially from the polymer rather than the field applications perspective Synthetic water soluble swellable polymers have commercial importance in such application as water treatment cosmetics and foods Yet these polymers have not received the scientific technological attention they deserve The application of water soluble polymers to oil recovery has in fact highlighted the need for new water based materials and a fundamental understanding of their structure and use Interest has been spurred not only for the potential economic credits from enhanced oil recovery and an augmented polymers business but also by the challenge of designing water soluble polymers for harsh environments

Water-Soluble Polymers N. Bikales, 2013-11-21

Water soluble polymers have been attracting increasing attention because of their utility in industrial applications of great current concern Perhaps preeminent among these is their ability to flocculate suspended solids e.g. wastes in municipal sewage treatment plants or pulp in papermaking other important applications are to aid in so called secondary recovery of petroleum to reduce turbulent friction of water and as components of water based finishes developed in response to environmental constraints Some water soluble polymers have shown interesting biologic activity which is being investigated further This book is based on papers presented at a symposium held by the American Chemical Society Division of Organic Coatings and Plastics Chemistry in

New York City on 30-31 August 1972. The large attendance and the favorable response of the audience confirmed not only our view of the importance of the field but also the need to bring these topics together. The chapters in this book are generally enlarged and more detailed with more complete bibliographies than the papers presented at the Symposium. They include not only the important applications described above but also descriptions of new syntheses and characterization methods.

Synthetic Water-soluble Polymers in Solution Esen A. Bekturov, Z. Kh. Bakauova, 1981

Water Soluble Polymers Yale L. Meltzer, 1981

Water Soluble Polymers, 2018-02-14. This book on water-soluble polymers (WSP) contains contributions that deal with this extremely popular area of scientific investigation in polymer science and engineering, both in academic and industrial environments. The book's contents cover a wide variety of topics, starting from polymerization kinetics, emphasis on multicomponent systems, clarification of factor effects (for example, ionic strength, pH, monomer concentration) and how they influence important chain characteristics and properties, mathematical modeling, parameter estimation, and process design, and ending with applications, i.e., using well-characterized polymer molecules to deliver specific, desirable properties for specific applications: hydrogels, cosmetics, drug release, flocculation, nanotechnology, enhanced oil recovery, polymer flooding, absorbents, crosslinking, and many others. This book contains 17 very high-quality contributions from author groups that span the globe and represent currently active researchers in the WSP area.

Water Soluble Polymers David P. Salter, 2002

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