

## Technical Information

**Productname**                      **FlocStar®**  
    High efficiency polyelectrolytes  
    A Product of Applied Chemicals

The **FlocStar®** series is a range of high efficiency polyelectrolytes specifically designed for solid-liquid separation processes within the sewage and industrial wastewater fields. The wide range of products available in this series is the result of intensive development and field experience on a worldwide basis; the extensive nature of the product range is designed to provide the optimum product for a particular unit operation.

### Product types

The **FlocStar®** products are synthetic, high molecular weight, water-soluble polymers based on acrylamide and its copolymers. The range of polyelectrolytes produced in this series covers a wide band of molecular weight and ionic charge properties thereby allowing for the effective flocculation of diverse substrate types. The **FlocStar®** series is produced in three distinct physical forms:

#### Solid grade products

- In powder/granular form
- In micro-bead form

#### Liquid grade emulsion products

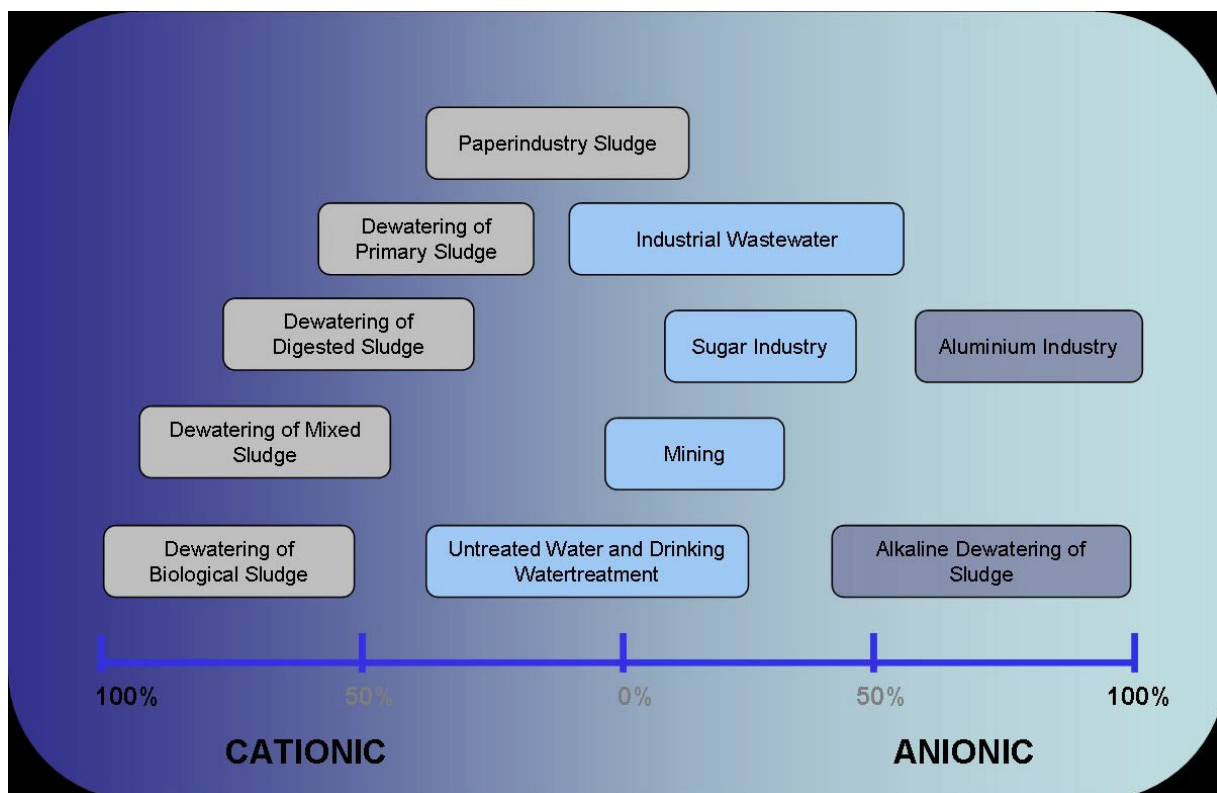
- High concentration emulsions

#### Liquid grade solution products

- Aqueous solutions of Polyamines and Polydadmacs

The products are suitable for a variety of applications in wastewater and various industries, as you can see the following overview of the main areas of application. Our technicians will help you in choosing the best product for your applications.





Many industrial wastewater effluent streams are treated by means of conventional wastewater treatment. Significant improvements can be made to this treatment by the use of the appropriate **FlocStar®** polymers. The benefits of using the correct **FlocStar®** polymers include:

- lower capital investment
- higher throughput
- additional capacity for peak loads
- reliable operation
- more manageable operations

### Technical Service

Members of our Application Technology Department are available as specialist consultants with extensive experience, to undertake non-binding studies and laboratory experiments using **FlocStar®** products under customers operational conditions. The need to optimise operational costs is especially true of polymers, where different products and application methods may significantly improve plant performance and reduce overall costs. ACAT recommend that all our customers take-up this service, as remarkably no obligations is involved.

### Plant Engineering

The production of **FlocStar®** solutions for operational use is effected by automatic Make up and Dosing Systems. Applied Chemicals has highly efficient mixing and dosing equipment for our **FlocStar®** products, whether they are in solid or liquid form. The use of our automated systems brings significant advantages in terms of the reliability of the plant, saving of operating costs and optimising product use. Applied Chemicals are always available to specify and install these systems.