



ACUSOL™ 820 JB Polymer

HASE Thickener

Regional Product Availability

- Latin America

Description

ACUSOL™ 820 JB Polymer is a Hydrophobically modified Alkali Soluble acrylic polymer Emulsion (HASE) with high aqueous thickening and stabilizing efficiency. When neutralized to a pH above 7 by adding alkalis, ACUSOL™ 820 JB Polymer thickens quickly. The immediate effect on viscosity and easy incorporation of ACUSOL™ 820 JB Polymer into alkaline cleaner formulations offer savings in valuable production time, especially in comparison to carbomer or cellulosic thickeners, requiring pre-dissolution and elimination of lumps.

Working by association, ACUSOL™ 820 JB Polymer can also thicken solutions containing high levels of surfactants at low pH. This performance is achieved by acidifying a neutralized surfactant-containing formulation with a dilute organic or mineral acid.

Key Features and Benefits

- Offers quick thickening with any alkali.
- Compatible with both non-ionic and anionic surfactants, builders and fillers.
- Supplied as a low viscosity liquid emulsion that is very easy to handle.
- Offers association with other formulation components for improved viscosity and stability.
- Excellent pseudoplastic (shear thinning) rheology, similar to cellulose but maintains higher viscosity for higher shear rates.
- Manufactured via water-based polymerization with no residual solvents or organic initiators.
- Facilitates the formulation of clear gels and solutions.
- Compatible with high levels of salts and electrolytes commonly used in household and institutional formulations.

Typical Properties

(These properties are typical but do not constitute specifications)

Property	Typical Values
Appearance	Opaque, white to yellow liquid
Solids, by weight, %	30
Density, wet, (g/ml)	1.06
pH (as supplied)	2.5
Viscosity (Brookfield LV#1, 60 rpm, 25°C), cps	< 100
Polymer type	Associative anionic acrylic polymer
Acid value (mls N/10 NaOH/g product)	11.7

**Handling
Precautions**

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Coating Materials Technical Representative for more information.

**Chemical
Registration**

Many countries require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. Dow does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

**Note on
Product Line**

Product availability and grades vary throughout countries. Please contact your local Dow Coating Materials representative for further information and samples.

**Product
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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