Water Solutions
Technical Information

Zetag® 8187 G

Ultra-high molecular weight cationic flocculant

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Description

Ultra-high molecular weight polyacrylamide based flocculant, supplied as a free flowing powder.

Chemical Structure

Co-polymer of acrylamide and quaternized cationic monomer.

Principal Use

Flocculant for conditioning a variety of municipal and industrial substrates prior to mechanical or static solid/liquid separation.

Zetag® 8187 G is ideal for demanding applications that require a market-leading low residual acrylamide content.

Zetag® 8187 G is “Generally Recognized As Safe” (GRAS) for use in processing recycled food solids for animal feed. When utilized in the solids recovery process, the maximum use level of Zetag® 8187 G, is 1% by weight of dry recovered solids. The maximum level of recovered solids in the final animal feed product is 30%.

Benefits

Highly effective across a wide range of applications (e. g. mechanical dewatering and thickening, flotation and clarification) and a wide pH range (4 – 9).

Typical Properties

Appearance	Off-white powder
Bulk density	Approx. 0.7 g/cm³
pH of 1 % solution at 25 °C	Approx. 3.6 – 4.6
Residual acrylamide	< 500 ppm

Recommended Zetag® 8187 G solution concentrations of 0.1 – 0.3 % maximum should be used due to the high viscosity of the make-up solutions. Solution concentrations in excess of 0.3 % should only be considered with polymer preparation systems that provide sufficient mixing and polymer aging times. For best results, the solution should be used within 5 days to avoid any potential loss in product performance.

Cationic charge		80 Wt%
Molecular weight		Ultra High
Apparent Viscosity (cP) at 25ºC at concentrations shown	0.25%	400
	0.50%	1,200
	1.00%	2,600

Storage

Under normal storage conditions within the range 0 – 35 °C, the product is stable for at least 24 months. Storage outside the above specified temperature range for long periods may adversely affect the product and should thus be avoided.

Shipping & Handling

As with all cationic polyelectrolytes the product exhibits toxicity towards fish.
It is important that precautions are taken where the product may come into direct contact with fresh water sources, including streams and rivers.

Corrosion towards most standard materials of construction is very low. Stainless steel, fiberglass, polyethylene, polypropylene and rubberized surfaces are recommended. In some cases aluminum surfaces can be adversely affected.

Packaging details are available on request from your local sales representative.

Product is very slippery when wet. Please refer to the relevant Safety Data Sheet (SDS) for methods of removing the polymer.

Technical Service

Local sales representatives and field service technicians are available to give advice and assistance in the running of laboratory tests and machine trials to select the correct product and determine the optimum application conditions.

Health & Safety

Detailed information on the product described in this document can be found in the relevant Safety Data Sheet (SDS).

Contact

For further information please contact your regional office, details of which can be obtained on our website; http://www.watersolutions.basf.com

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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