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BASF Performance Products plc

ZETAG[®] Powder Range

Solid grade cationic polyelectrolytes

Description

High molecular weight polyacrylamide based flocculants, which exhibit varying degrees of cationic charge. They are supplied as free flowing powders.

Chemical structure

Co-polymers of acrylamide and quaternised cationic monomer

Principal use

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

These products are not suitable for use in potable water applications. If in any doubt regarding suitability for a given application please contact your local sales representative.

Benefits

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

Typical properties

Appearance: Off-white, granular solid
Bulk density: Approx. 0.7 g/cm³
pH of 1% solution at 25 °C: 3.6 – 4.6

Product	Cationic Charge	Molecular Weight	Apparent Viscosity (cP) at 25 °C at conc. shown (%)		
			0.25	0.50	1.0
ZETAG 7645	very low	very high	150	250	650
ZETAG 8110	very low	very high	200	350	650
ZETAG 8115	very low	high	350	600	1,350
ZETAG 8125	low	high	350	600	1,350
ZETAG 7650	low	very high	400	850	2,000
ZETAG 8140	medium	high	450	850	2,200
ZETAG 7652	medium	very high	550	1,100	2,600
ZETAG 8160	medium-high	high	600	1,200	2,800
ZETAG 8165	medium-high	very high	650	1,200	3,000
ZETAG 8180	high	high	600	1,000	2,400
ZETAG 8185	high	very high	650	1,150	2,600
ZETAG 8190	very high	high	600	1,100	2,600

Storage

Under normal storage conditions within the range 5 – 25 °C, the product will be stable for at least 24 months. Storage outside the above specified temperature range for long periods may adversely affect the product over a long period and should thus be avoided, if possible.

It is recommended that stock solutions at 0.25 – 0.5 % are prepared regularly and for maximum effect such solutions should be used within 5 days. Beyond this period some loss in efficiency of the product may occur.

Shipping & Handling

Effects of low temperature on dissolution – at low water temperatures, <5 ° Celsius, the dissolution of this product will be adversely affected to the extent that longer dissolution times will be required.

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 courses, streams and rivers.

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

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

Very slippery when wet. Please refer to the MSDS for methods of removing the polymer.

Technical Service

Account managers 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 best application conditions.

Health & Safety

Detailed information on the product described in this leaflet can be found in our relevant health and safety information (Material Safety Data Sheet).

Contact

For further information 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.

September 2010