Zetag® ULTRA
Ultra-high molecular weight cationic flocculants

Product Description
Zetag® ULTRA cationic flocculant range can be used in highly varied sludge conditions and offers strong floc integrity for the toughest applications. It is especially effective for use in centrifuge, flotation and gravity belt thickener processes and offers a significant dosing reduction and higher cake solids. As a result, operational, transport and landfill costs can be reduced.

Application
- Solid/Liquid separation in waste water treatment, especially designed for high-speed centrifuge applications
- Highly efficient in Gravity Belt Thickeners (GBT), Dissolved Air Flotation (DAF) and Rotary Drum Thickener (RDT) dewatering applications

Advantages
- Significant active dose saving of up to 20%*
- Cake solids of dewatered sludge can be increased by up to 15%*
- Strong floc integrity for high shear applications
- Improved process stability and higher purity of centrate

Benefits
- Operational cost-savings for the dewatering process
- Reduction in biosolids transport and landfill disposal costs
- Less oil and gas energy required for thermal incineration

Dewatering Property*

Should you require further info please contact your sales representative.
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Chemical and Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>Zetag® 8127</th>
<th>Zetag® 8147</th>
<th>Zetag® 8167</th>
<th>Zetag® 8187</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cationic charge</td>
<td>low</td>
<td>medium</td>
<td>medium</td>
<td>high</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>ultra-high</td>
<td>ultra-high</td>
<td>medium-high</td>
<td>high</td>
</tr>
<tr>
<td>Physical form</td>
<td>powder</td>
<td>powder</td>
<td>powder</td>
<td>powder</td>
</tr>
<tr>
<td>Appearance</td>
<td>off-white powder</td>
<td>off-white powder</td>
<td>off-white powder</td>
<td>off-white powder</td>
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<tr>
<td>Bulk density, g/cm³</td>
<td>~ 0.7</td>
<td>~ 0.7</td>
<td>~ 0.7</td>
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<tr>
<td>pH of 1 % solution at 25 °C</td>
<td>~ 3.6 – 4.6</td>
<td>~ 3.6 – 4.6</td>
<td>~ 3.6 – 4.6</td>
<td>~ 3.6 – 4.6</td>
</tr>
</tbody>
</table>

Functionality

Due to more effective bridging capabilities, Zetag® ULTRA polymers show advanced dewatering performance as compared to standard flocculants based on lower molecular weight.

Sustainability

Zetag® ULTRA offers a sustainable solution to your waste treatment plant through:

- **Improved dewatering:** Each 1% of water removed from cake solids will result in a 5% reduction in transportation costs and thereby reducing CO2 emissions.
- **Recycle / Reuse:** Zetag Ultra sludge can be separated from waste water and the filtrate is thereby returned to general water supply.
- **Energy Efficiency:** With Zetag Ultra, sludge is conditioned to improve the separation process resulting in overall energy reduction.

Contact Details • Performance Chemicals • Water Solutions • www.watersolutions.basf.com

North America
BASF Corporation
100 Park Avenue
Florham Park
NJ 07932, USA
Phone: +1 (800) 322 3885
E-mail: water.solutions.na@basf.com

South America
BASF S.A.
Av. das Nações Unidas, 14.171
10º Andar, Morumbi
04794 000 São Paulo, Brazil
Phone: +55 11 2039 2366
E-mail: water.solutions.sa@basf.com

Europe, Middle East, Africa
BASF SE
Carl-Bosch-Straße 38
67056 Ludwigshafen, Germany
Fax: +49 621 60 42525
Phone: +49 621 60 0
E-mail: water.solutions@basf.com

Asia Pacific
BASF East Asia Regional HQ Ltd.
45th floor Jardine House, No. 1
Connaught Place, Central, Hong Kong
Fax: +852 2731 5633
Phone: +852 2731 0111
E-mail: water.solutions.ap@basf.com

Should you require further info please contact your sales representative.