Novochem Fertilizer Additives

The Art of Chemical Processing

Solid fertilizers are sensitive to caking, moisture uptake and/or dust formation. Novochem Fertilizer Additives both develops and commercializes specific additions to keep the fertilizer in excellent condition. Novochem Fertilizer Additives has been one of the leading global suppliers in this market for many years. One of our added values is to develop a custom-made treatment for the quality, packing, transport and storage conditions of the fertilizer. Our final aim is to obtain the best treatment with respect to both quality and economics without the fertilizer manufacturer being limited in the choice of raw materials. Novochem Fertilizer Additives has a highly experienced technical staff and a well-equipped R&D fertilizer laboratory in order to reach this aim in close cooperation with you. Several successful inventions of Novochem Fertilizer Additives have been filed as patents worldwide.

The Novochem Fertilizer Additives range of products is composed as follows:

- Anti-caking agents
- Concentrated anti-caking agents
- Moisture repellency agents
- Dedusting agents
- Coloring agents
- Flocculants
- Antifoam agents
- Granulation additives

Coloring Agents

Create Recognition by Coloring

Some fertilizer end-users prefer a uniform colored product or a fertilizer with a specific color. This occurs often when blends contain different grades with variations in color. By application of NovoTint coloring can be obtained as required. Moreover, NovoTint possesses strong dust-binding properties and shows excellent UV-stability.

Amounts

<table>
<thead>
<tr>
<th>Color</th>
<th>Trade name</th>
<th>Available in the following colors</th>
</tr>
</thead>
<tbody>
<tr>
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<td>NovoBlack</td>
<td>Black</td>
</tr>
<tr>
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</tr>
<tr>
<td>Green</td>
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<tr>
<td>Red</td>
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</tr>
<tr>
<td>Yellow</td>
<td>NovoYellow</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

Foam Protection for Phosphoric Acid Process

Control Foam Formation in the Phosphoric Acid Process

Novochem Fertilizer Additives offers very effective anti-foaming agents under the name of NovoFoam. NovoFoam is especially designed to control foams formation during the reaction of sedimentary phosphate rock with acids in the wet processes.

Specific Flocculants for the Phosphoric Acid Process

Novochem Fertilizer Additives has a broad range of flocculants to optimize industrial processes under the name NovoFloc. The products can improve the filtration rate of a phosphoric acid-yipem slurry, resulting in lower F505 losses. Moreover, they can act as a separating agent to separate solid particles from acids more readily.

Application

- Anti-caking agents
- Concentrated anti-caking agents
- Moisture repellency agents
- Dedusting agents
- Coloring agents
- Flocculants
- Antifoam agents
- Granulation additives

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Product Innovation

Novochem Fertilizer Additives offers the possibility for tailor-made product development according to the customer’s specific requirements. Our R&D-facilities are at your disposal! Novochem Fertilizer Additives especially excels at:

1. Anti-caking agents for solid materials
2. Moisture repellency additives
3. Anti-dust agents for solid materials
4. Corrosion inhibitors for salt solutions
5. Environmentally friendly fertilizer additives

In addition we can offer sustainable solutions in closely related subjects.

Trouble Shooting

Novochem Fertilizer Additives offers trouble shooting services to prevent caking, moisture uptake and/or dust formation during storage, transport, or handling of fertilizers. Novochem Fertilizer Additives offers a customer-made treatment package, which includes the coating agent, dosing equipment and, if required, technical assistance. Contact us, and we shall draw up a sound plan with you.

Caking Protection

Free Flowing Fertilizer Granules

During storage and transport fertilizers often show a caking tendency due to temperature, humidity and pressure. Novochem Fertilizer Additives offers solutions like anti-caking agents under the trade name NovoFlow. Depending on its composition NovoFlow can have strong anti-caking, moisture repellency and/or dust reducing properties. The application of NovoFlow is adjusted to the specific fertilizer properties, production process, storage conditions and climate conditions.

For products:

Novochem Fertilizer Additives also offers coating concentrates under the brand NovoFlow Liquid Concentrate and NovoFlake Solid Concentrate. These products should be diluted with a suitable oil on site.

Moisture Protection

Fertilizer Granules Protected against Moisture

Many fertilizers are sensitive to changes in temperature and humidity. It can result in caking and/or dust. Most traditional coating agents do not give sufficient protection against moisture uptake. Novochem Fertilizer Additives has been a specialist in moisture protection for many years. This technology can be combined with anti-caking protection. Several patents have been filed within this field.

The coating agents are applied on the following types of fertilizers:

- Ammonium Nitrate (AN)
- Calcium Ammonium Nitrate (CAN)
- Urea
- Ammonium Sulfate
- Ammonium Phosphate
- Potassium Sulfate
- Potassium Nitrate
- Potassium Chloride
- Blends
- Inorganic salts

NovoFlow coating agents are available for all types of fertilizer processes, such as blending, filling, transportation and special solutions, and for each type of fertilizer.

Corrosion Protection for Liquid Fertilizer

The Best Corrosion Inhibitor for Liquid Fertilizer

Liquid fertilizers are usually very corrosive, making the addition of an effective corrosion inhibitor crucial. Novochem Fertilizer Additives in the leading company in the development and marketing of corrosion inhibitors for various types of liquid fertilizer. Upon addition of the corrosion inhibitors metal surfaces and wools are maintained in excellent condition during the whole process from the production unit until the end user. Novochem Fertilizer Additives products guarantee optimal sustainable protection.

Dust Protection

Safe Handling of Products Sensitive to Dust

The excessive release of dust during the transport of fertilizer is an ever growing concern due to stricter environmental and safety regulations and also due to increased attention to a clean working place. With the application of NovoDust coatings the emission of dust is strongly reduced.

Granulation Additives

Improvement of the Fertilizer Granule from Scratch

Novochem Fertilizer Additives offers granulation additives by the name of NovoTec. These products are applied to optimize the production process and/or improve the fertilizer granule quality. Several technologies have been patented by Novochem Fertilizer Additives.

Novochem Fertilizer Additives belongs to the Novochem Group.

The Novochem Group has three other business units, being: 
• Novochem Water Treatment 
• Novochem Technical Coatings 
• Novochem Technical Polishes

For any questions about these businesses please feel free to contact us.