Inorganic chemicals

PRODUCTION OF AMMONIUM SULFATE (Crystallisation)

Project information

Customer: DOMO Caproleuna GmbH

Plant: Ammonium sulfate crystallization

Location: Leuna, Germany

Capacity: 50 kt/y ammonium sulfate

Services of CAC

→ Project management
→ Authority engineering
→ Basic and detail engineering
→ Procurement services & supplies
→ Construction and Installation supervision
→ Site management
→ Commissioning support & training

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**Inorganic chemicals**

**PRODUCTION OF AMMONIUM SULFATE**

*(Crystallisation)*

<table>
<thead>
<tr>
<th><strong>Special features</strong></th>
<th><strong>Details</strong></th>
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<tbody>
<tr>
<td>Variable throughput</td>
<td>Low energy consumption due to heat recovery and compression of waste steam</td>
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<tr>
<td>High product purity</td>
<td>Heating with external steam is possible</td>
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<tr>
<td>High degree of drying of the crystalline product</td>
<td>Low space requirement and variable arrangement</td>
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<td>Variable grain size of the crystalline product</td>
<td>Fully automated plant concept</td>
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<td>No additional impact on the environment</td>
<td>Minimal sound emission</td>
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**Typical process diagram**

- **Feed** → **Crystallisation** → **Solid-liquid-separation** → **Drying** → **Classification** → **Storage and Packaging** → **Product**
- **Compression of waste steam**
- **Offgas-cleaning** → **Cleaned offgas**
- **Oversize and undersize grain**
- **Condensat**
- **Air for drying**
- **Mother liquor clarification**

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