



## Seeing is believing:

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### BASF Specialty Chemicals

Flocculant Plant, Nanjing, China

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Clean water is becoming an increasingly important raw material, not just as drinking water but also in all industrial production processes, for example as a component of finished products, as a coolant, as a detergent and for hygiene.

Many countries have now introduced stricter environmental standards for water and waste water treatment, making it more difficult for existing facilities to properly treat dirty water, waste water, process water and sewage sludge and at the same time operate profitably.

We supply chemicals specifically developed for use in municipal waste water treatment plants and for the treatment of industrial waste water. Our customers include industries such as petrochemicals, pharmaceuticals, textiles, food and agriculture.

#### (01) Trucks at factory gate – Flocculant Plant, Nanjing

12/20/2012; 07:31; A1/A2: Atmo; FullHD



Innovative products and technologies from BASF help in all areas of environmental protection, municipal supply and waste disposal, water treatment, wastewater treatment as well as the treatment of waste including recycling.



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Whether for power, water, oil or gas production, their treatment or processing: environmentally compatible chemicals and processes are an indiscernible element in solving problems such as resource utilization, environmental regulations and economic feasibility.

### (02) Plant tour with a customer – Flocculant Plant, Nanjing

12/20/2012; 06:10; A1/A2: Atmo; FullHD



At the end of 2012 BASF has started a new facility in Nanjing which produces chemicals for water treatment and paper manufacturing. These BASF's wholly-owned, world-scale plants will be able to manufacture 40,000 tons of quaternized cationic monomers and 20,000 tons of cationic polyacrylamide annually.

These chemicals are the feedstock for organic flocculants which are crucial for municipalities and industries in waste water treatment. They are also used as retention and drainage aids in the paper industry. Key precursors are supplied by the adjoining facilities at the Verbund site of BASF-YPC.



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### (03) Percol® production – Flocculant Plant, Nanjing

12/20/2012; 05:53; A1/A2: Atmo; FullHD



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### (04) Inspection tour at night – Flocculant Plant, Nanjing

12/20/2012; 05:16; A1/A2: Atmo; FullHD



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### (05) Justin Brightmore – Technical Specialist, BASF SE

12/20/2012; 04:25; A1/A2: Direct Sound; FullHD



*“I’m just abroad a while. I work in China at the moment but I’m on delegation from BASF in the UK. I came over to help as technology manager for this project and we build the site you see behind you know.”*

*“We have a monomer plant just here in the foreground, which makes our cationic monomer, which we then use in the plant behind that to make a cationic polyacrylamide powder.”*

*“So, Flocculants can be used in the wastewater treatment areas, so as domestic waste and also chemical waste. So we can help the Asia Pacific market reuse a lot of the water that is currently wasted.”*

*“This is a sample we have taken from a wastewater treatment plant we have here. The solid is in suspension at the moment and this pipette contains a very dilute solution of our material. And if I had a single drop, a single drop we can then mix that with the solids by simply appending the jar and if we just allow that it stands for a moment*





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*you will see that the solid material starts to sink and leaves a clear liquid above which we can then easily separate and recycle the top layer.”*

*“In a full scale industrial unit this would go forward so if we do a simple separation the top layer is put away and that can go for further processing and the bottom layer goes through a filtration system to remove any more water and leave us with a solid cake which can then, is disposed of in an environmentally friendly manner.”*

*“The rolling mills that produce, take a paper pulp and turn out into the paper sheet, they will use our products because it allows the paper pulp remain in suspension in the water as it flows in the roll-out machines. They will then also use the products in their wastewater treatment so they remain environmentally friendly.”*

### **(06) Qin Mingwei – General Manager, BASF Specialty Chemicals**

*12/20/2012; 02:19; A1/A2: Direct Sound; FullHD*



*“Asia Pacific is a booming region. Water retreatment is also a very developing business. We built this plant in Nanjing, because of our customers demand. By building a new plant, a new site here we can serve our customers better.”*

*“We provide a solution to guarantee you clean water in your daily life and we also provide you a solution for water recycling. By doing this you can save a lot of water. We can also help our customers, companies for some recycling water. So use our water, we can make some commitment to the whole society.”*





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*“As a new site we try to setup the site, we always follow the BASF’s guideline in safety, environmental, following the concept for responsible care. By inviting some experts we give a lot of trainings to our new employees and we have to make sure, that all these employees follow our concept, know the knowledge and implementation of their safety awareness and behavior in their daily work.”*

*“Our new employees come from different companies. They know some roles in safety and environment. But after joining our company for some months, even a little bit more than one year, all these employees realize the high demand from BASF compare with their former owners.”*

