

# Stallingborough Plant

Laporte Road, Stallingborough  
Grimsby, North East Lincolnshire,  
United Kingdom DN40 2PR



The Stallingborough Plant produces titanium dioxide (TiO<sub>2</sub>) for Cristal's Millennium Inorganic Chemicals business. We are the world's second-largest producer of TiO<sub>2</sub>, a bright white powder made from titanium ore that has the ability to pigment virtually any material. TiO<sub>2</sub> makes possible the opacity, brightness and durability in paint formulas that have made modern paints more cost efficient, easier to use and friendlier to the environment. TiO<sub>2</sub> also gives plastics and rubber opacity and whiteness. It is used in such diverse products as printing inks, paper, ceramics, glass, leather, synthetic fibres and colours formulated for art paints.

The Stallingborough Plant is located in North East Lincolnshire, on the east coast of England, 7 miles from Grimsby on the south bank of the River Humber. The plant occupies a 160-hectare site. The Stallingborough plant produces TiO<sub>2</sub> through the chloride process which uses chlorine to react with titanium-bearing ores in a high-temperature process. TiO<sub>2</sub> is extracted in a rutile form, which allows greater purity and higher control over the size distribution of the pigment particles than other manufacturing processes. Stallingborough is the largest-volume TiO<sub>2</sub> facility in Europe.

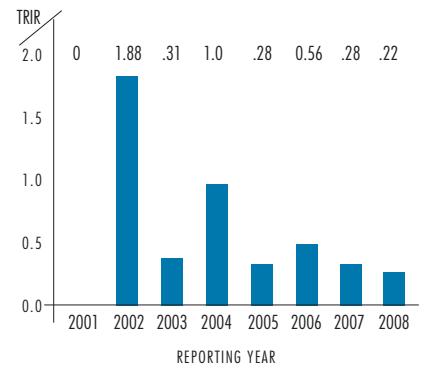
## Performance Summary

Our commitment to sustainable growth balances our responsibility to provide economic value for our stakeholders, with respect for the social concerns of the community in which we operate, and with care for the environment around us.

### PROVIDING ECONOMIC VALUE

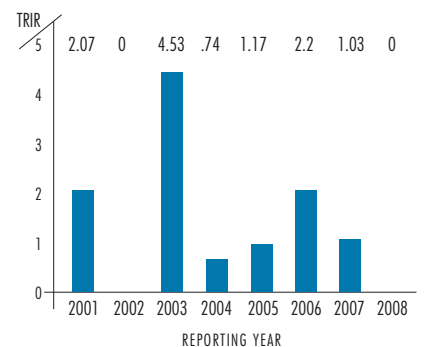
- We have 380 high calibre professional, technical and craft employees that are involved in the development and manufacture of this technical product through a high specification plant
- The site has a long history of providing employment for local people since 1953 and is proud of the long-serving employees who have helped to grow the business to its current level, with many of these employees working through from the apprenticeship schemes to professional, technical and craft status
- The site utilises a regular population of approximately 50 contractors across a range of services using local companies
- Annual payroll and benefits of almost £20 million (US \$36 million)
- Site purchases more than £133 million (US \$240 million) of goods and services annually

### Employee–Total Recordable Incident Rate (TRIR) Rate of injuries per 100 employees



We continue to strive for an injury-free workplace.

### Contractor–Total Recordable Incident Rate (TRIR)



Our contractors are held to high safety standards.

## RESPECTING SOCIAL CONCERNS

We recognize that being a socially responsible member of the community requires maintaining an open door for community dialogue and actively working to support community needs.

- **Community Outreach.** We actively encourage community interest through the site's "Community Awareness Committee." The committee is a group of cross-functional employees who engage with schools, community groups and institutions to promote awareness of our operations. Management and employees meet regularly with our neighbours in key focus groups and participate in the Stallingborough Community Liaison Panel, with local industrials and the governing Parish Council.
- **Education.** We are actively involved with local educational institutions, by promoting and supporting initiatives in Science and Engineering. We are also engaged with an initiative called "Young Enterprise," which promotes business awareness and business leadership within schools. Specific support was provided to our local colleges and academies at Healing and Immingham in their drive for Science and Engineering specialisms.
- **Volunteerism.** Employees participate in a range of community activities including Scouts, Boys Brigade, Air Training Corps, British Red Cross and St. John's Ambulance. Many employees also serve as parent and community governors at local schools/colleges and hold local council posts. Employees also participate in volunteering their time towards particular local community projects.
- **Philanthropy.** The company makes regular contributions to many local charitable organisations, schools and institutions both directly and through employee sponsorship for fund raising events. The company also actively supports the application and partial funding of large projects using grants available through the Landfill Tax Credit Scheme. Recent community projects include installation of new play equipment and restoration of local community buildings.

## CARING FOR THE ENVIRONMENT

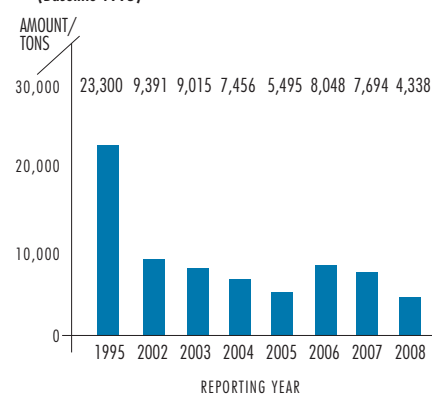
Our commitment as a socially responsible company means that we operate our facilities in a manner that protects people and the environment and preserves our world for future generations. We are committed to continuous improvement in safety, security, environmental performance, reliability and open communication.

- **Safety Performance.** The plant has an active behavioural safety improvement programme involving employees and contractors called L4SB (Look for Safe Behaviour). Employees surpassed 5 years without a Lost Work Day Incident in March 2009. The site has been awarded the CIA Gold Award in recognition of the safety performance over the previous 5 years.
- **Prevention.** The site is a top tier COMAH installation and has a program in place to ensure the safe operation and maintenance of our processes so that accidental releases are prevented. This includes a Process Safety Management System.
- **Environmental.** In recent years, £35 million has been invested in environmental protection and improvements at Stallingborough. The site has reduced emissions by 92 percent since 1990. In accordance with our Environmental Management System (EMS), a series of objectives and targets have been set to reduce emissions from the site. These target areas also include reductions in energy, water usage as well as usage in utilities such as compressed air, nitrogen and steam.
- **Waste Minimization and Reduction.** Titanium dioxide yield was at an all-time high in 2004. Solid waste generation per tonne of TiO<sub>2</sub> has been reduced by six percent in the past three years.
- **Energy Efficiency.** Electricity usage has been reduced by 10 percent per tonne of TiO<sub>2</sub> since 2001.
- **Milestones.** The site has implemented all of the elements required for an environmental management system, called ISO 14001 and received certification in 2004. A portion of the company's landfill tax is diverted to local environmental projects via the Landfill Tax Credit Scheme.

National Titanium Dioxide Company Ltd. ("Cristal") and Millennium Inorganic Chemicals (MIC) combine to form the world's second-largest producer of titanium dioxide and a leading producer of titanium chemicals. Cristal and MIC operate eight manufacturing plants in six countries and employ nearly 4,000 people worldwide. MIC is a wholly owned subsidiary of Cristal.

Visit [www.cristalglobal.com](http://www.cristalglobal.com) for more information about the company and its products.

## Air Emissions—NO<sub>x</sub>, SO<sub>2</sub>, CO, PM, VOC (Baseline 1995)



The reduction reflects the significantly improved performance of the thermal converter unit in using CO to raise steam.

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