

The Inorganic Pigments business unit

The Inorganic Pigments (IPG) business unit of specialty chemicals company LANXESS is the world's largest manufacturer of iron oxides and a leading producer of inorganic pigments based on chrome oxides.

The iron oxides produced by IPG have a decades-long track record in coloring paints and coatings, plastics and paper, as well as specialty pigments for toners and other applications. They are marketed under the trade names Bayferrox, Bayoxide and Colortherm and are among the world's most lightfast and weather-stable pigments, along with Chrome Oxide Green, which the company also supplies. The pigments are characterized by their outstanding chemical resistance and are considered the worldwide standard.

Numerous areas of application

In terms of volume, the construction industry is the biggest customer, making up around 50 percent. Here, environmentally compatible iron oxides from LANXESS are not only used in in-situ concrete and prefabricated concrete components but also in integrally colored concrete roofing tiles and paving stones. With its "Colored Concrete Works" initiative, the business unit additionally shows in a series of prestigious case studies how Bayferrox and Colortherm pigments can be used in the 21st century to give beauty and value to architectural objects.

The color spectrum available using iron oxides covers many warm shades from yellow to ocher, and from red to brown and black. Both pastel shades and vivid colors can be created. Chrome oxides can be used to create green colors. The range of colors of LANXESS's iron oxides is continually expanded through high-level "crystal engineering" among other means, which also takes into account the important role of light scattering effects on the color impression. The development of particularly high-temperature-resistant pigments – for

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Background Information

example for the coloring of asphalt or heat-curing coating systems with high baking temperatures – is a particular strength of this business unit.

IPG has developed technical oxides for airbags, brake linings, refractory ceramics and toners for use in copiers and printers.

Eco-friendly production processes

The IPG business unit places great value at all its sites worldwide on applying sustainable production processes. In the Ningbo Chemical Park in China, for example, IPG is for the first time employing a process it has developed itself in which improved water treatment and waste gas purification ensure a high level of environmental compatibility. Optimizations in the production process are significantly reducing the quantities of nitrogen oxides generated. Emissions of the greenhouse gas N₂O (nitrous oxide) are converted almost completely by an efficient after-treatment into nitrogen, water and oxygen – all naturally occurring substances.

Compared to all iron oxides currently available on the global market, the innovative and sustainable “Ningbo process” produces the brightest and most yellowish red pigments. The production facility began regular operation in spring 2016.

Longstanding technical expertise

IPG customers have access to four globally operating competence centers – Paints & Coatings, Construction, Color Specialties (plastics and paper) and Technical Oxides. These offer tailored solutions in response to individual inquiries and local technical support.

The IPG business unit is part of LANXESS’s Performance Chemicals segment, which recorded sales of around EUR 2.1 billion in fiscal 2015. It is headed by Jörg Hellwig and currently employs around 1,600 people worldwide.

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Main brand

Bayferrox[®]: Inorganic iron oxide and chrome oxide pigments with outstanding material properties, e.g. for integrally colored concrete, colored precast concrete such as facade elements or colored in-situ concrete. Bayferrox[®] pigments are also suitable for use in steel-reinforced concrete to EN 12878. Other applications include the coloring of lime-bound construction materials. Bayferrox[®] synthetic iron oxide pigments are available as powder, granules and compact pigment. As microgranules or compact pigments they are particularly low-dusting and have a much higher bulk density than a corresponding powder.

LANXESS adapts Bayferrox[®] pigments to a wide variety of application forms. Special pigments are stable at temperatures of up to and around 500 °C and can withstand the baking temperatures required in the curing of pigmented coatings without any problem.

Sites

Krefeld-Uerdingen (Germany), Porto Feliz (Brazil), Starpointe Burgettstown (United States), Branston (UK), Vilassar de Mar (Spain), Sydney (Australia) and Shanghai-Jinshan and Ningbo (China)

For more detailed information go to:

www.bayferrox.com

www.colored-concrete-works.com

LANXESS is a leading specialty chemicals company with sales of EUR 7.9 billion in 2015 and about 16,700 employees in 29 countries. The company is currently represented at 55 production sites worldwide. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, specialty chemicals and plastics. Through ARLANXEO, the joint venture with Saudi Aramco, LANXESS is also a leading supplier of synthetic rubber. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World) and FTSE4Good.

Cologne, October 2016

Forward-Looking Statements

This news release may contain forward-looking statements based on current assumptions and forecasts made by LANXESS AG management. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. The company assumes no liability whatsoever to update these forward-looking statements or to conform them to future events or developments.

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