



**COSMETICS ENERGIZED BY**

**LANXESS**  
Energizing Chemistry

Bayferrox® and Colortherm® Z-grades are of high purity and ensure a natural look

**X BAYFERROX®** |  
Color for Life.

**X COLORTHERM®** |  
Color for Life.

# MILD ON SKIN WITH BEAUTIFUL COLOR

For the special field of cosmetic applications, LANXESS Inorganic Pigments has developed a separate product line called Z-grades. The Z-grades of the brands Bayferrox® and Colortherm® are based on synthetic iron oxide and chromium oxide and are recommended for applications where colored products are in direct contact with human skin. Containing very low levels of heavy metals and other impurities they fulfill the highest dermatological standards and all necessary regulatory requirements of the FDA and EC.

The LANXESS Inorganic Pigments' Z-grades are available in four color shades: black, yellow, red and green. Whereas black is mainly used in makeup types such as eyeliner, mascara or kohl, yellow and red pigments are found in makeup types such as liquid foundations, powder makeup, lipstick or rouge. Green pigments are mostly used in eye shadows.

All LANXESS Inorganic Pigments are non-hazardous, safe, stable and non-allergenic. In chemical terms, they are comparable with their natural counterparts. However with regard to their color, they are superior to naturals because of their higher purity and their particle morphology.



## LANXESS IS A RELIABLE PARTNER

### Premium quality and sustainability

Outstanding product quality, long-established technical expertise and environmentally friendly production processes – these are the defining features of Bayferrox® and Colortherm® pigments from LANXESS.

LANXESS Inorganic Pigments is the world's largest producer of synthetic iron oxide pigments and has production sites on five continents that meet the highest technical and ecological standards. Crucial to the business philosophy of LANXESS Inorganic Pigments is its commitment to sustainability and responsibility



### Key benefits

#### ■ Surpasses global regulatory requirements

The pigment fulfills the requirements of FDA 21 CFR 73.2250 standards and regulation (EC) No 1223/2009 on cosmetics products, section E172 for iron oxides.

#### ■ Narrow particle size distribution

A strictly controlled production process ensures a narrow particle size distribution creating less agglomeration and increased tinting strength.

#### ■ Microbiological purity strictly controlled

Z-grades are subject to special test procedures and fulfill the highest dermatological standards.

#### ■ Tight color tolerances

Narrow specifications guarantee safe and consistent formulations.



in all its dealings with the environment, customers and society. Production processes are resource-friendly and, where emissions cannot be avoided completely, any waste products are treated in such a way so as to minimize their environmental impact before being released into the air or water. LANXESS is setting global industrial standards in this area. However, sustainability means more than just environmental protection. It also means being a long-term and reliable partner to customers. That is why LANXESS Inorganic Pigments continuously invests in order to expand capacities and application areas. Indeed, that is the only way that the rising demand for the quality products Bayferrox® and Colortherm® can be met in the long term.

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**Health and Safety Information:** Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be over-emphasized. Information is available in several forms, e.g. material safety data sheets, product information and product labels. Consult your LANXESS representative in Germany, or contact the Regulatory Affairs and Product Safety Department of LANXESS Germany or – for business in the USA – the LANXESS Regulatory Affairs and Product Safety Department in Pittsburgh, Pennsylvania.

**Regulatory Compliance Information:** Some of the end uses of the products described in this publication must comply with applicable regulations, such as those of the FDA, BfR, NSF, USDA and CPSC. If you have any questions on the regulatory status of these products, please consult your LANXESS representative in Germany, or contact the Regulatory Affairs and Product Safety Department of LANXESS Germany or – for business in the USA – your LANXESS Corporation representative, the LANXESS Regulatory Affairs Manager in Pittsburgh, Pennsylvania.

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**LANXESS**  
Energizing Chemistry

LANXESS Deutschland GmbH  
Business Unit Inorganic Pigments  
47812 Krefeld  
Germany  
Phone: +49 2151 88-3790  
Fax: +49 2151 88-4133

[www.lanxess.com](http://www.lanxess.com)  
[www.bayferrox.com](http://www.bayferrox.com)