

Market Study: Pigments



World Report (8th edition)

This brochure provides further information on the study “Pigments - World (8th edition)”

Executive Summary

Around the world, green is considered the color of new beginnings, of growth, of life. However, finding truly “green” pigments is a challenge: cadmium, cobalt, copper and other heavy metals can be dangerous, while natural earth colors are less durable and more difficult to process. Nevertheless, the outlook for these small, coloring particles is predominantly positive: global demand will increase to 14.5 million tonnes per year by 2032, according to the latest, eighth Ceresana report.

The construction industry is the main customer for pigments

By far the most important sales market for pigments are paints and coatings, which consumes around 5 million tonnes per year. 2.5 million tonnes of this is accounted for by interior and exterior paints for the construction industry. There are major regional differences in the use of pigments, which is why Ceresana’s study examines the applications paints and coatings, plastics and printing inks in detail, along with their respective submarkets.

Colorful plastics, building materials, inks

Plastics are the second largest area of application. Around 1.4 million tonnes of pigments are used every year for packaging alone. Pigments are also used for numerous industrial plastic products. They are followed by construction materials, printing inks and paper. In the case of printing inks, the use of pigments in offset printing predominates with a share of 51%, ahead of flexo printing, which is primarily used for labels, corrugated cardboard, and films.

TiO₂, iron oxides & carbon black sell the best

Organic pigments can be produced in part from biogenic materials – but currently only

account for a small share of the global market. The best-selling pigment types are inorganic pigments, especially metal salts. Around 60% of total pigment demand is accounted for by the white pigment titanium dioxide (TiO₂), which is mainly used for paints and coatings. Iron oxide pigments, the most widely used inorganic color pigments, come in second, followed by carbon black, which is mainly used for printing inks, paints and coatings.

Market Study in Brief:

Chapter 1 analyzes the global market - including forecasts up to 2032: The development of revenues, demand, and production is detailed for each region of the world. Demand is given for the various types of pigments: TiO₂, Carbon Black, Iron oxide, Other inorganic pigments, and Organic pigments.

Moreover, the different applications are examined. The following are considered individually: Paints and coatings, broken down into the submarkets: Construction industry, Transportation, Industry, Others; Plastics, divided into: Packaging, Construction industry, Industry, Others; Paper; Construction materials; Printing inks, split into: Offset printing, Flexo printing, Others; Other applications.

Chapter 2 analyzes 31 countries in detail in terms of demand, export, import, production, and revenues. The data regarding demand per country is split by pigment types and applications. In addition, demand for the individual pigment types per application is provided.

Chapter 3 provides a useful directory of the 62 most important manufacturers of pigments, for example, Altana, DIC, Heubach, Lanxess, Merck, Sibelco, Venator, and Vibrantz.

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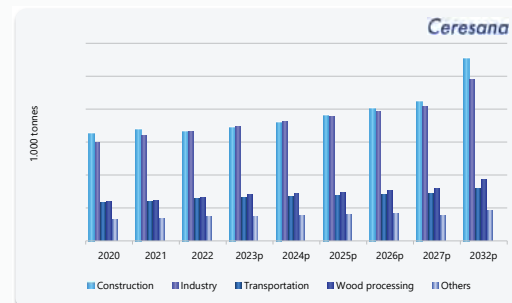
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1.6.4 Asia Pacific – Applications and Products

The segment paints and coatings accounted for the largest share of the 5.44 million tonnes of pigments that were utilized in the Asia-Pacific region in 2020. The highest percentage increase in the upcoming ten years is expected for the application area "Printing Inks - Flexography". Titanium dioxide represented the largest sub-market in terms of products in 2020. We expect demand for organic products to increase most notably in percentages during the forecasting horizon. Detailed information on the market dynamics of the individual application areas and products can be found in the respective tables.



Graph: Demand for pigments in Asia-Pacific from 2018 to 2030 – split by applications

| in 1,000 tonnes | 2018 | 2019 | 2020 | 2021p | 2022p | 2023p | 2024p | 2025p | 2030p | 2020-2030 |
|-------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-----------|
| Paints and Coatings | X | X | X | X | X | X | X | X | X | X% p.a. |
| Construction | X | X | X | X | X | X | X | X | X | X% p.a. |
| Industry | X | X | X | X | X | X | X | X | X | X% p.a. |
| Automotive Coatings | X | X | X | X | X | X | X | X | X | X% p.a. |
| Others | X | X | X | X | X | X | X | X | X | X% p.a. |
| Plastics | X | X | X | X | X | X | X | X | X | X% p.a. |
| Packaging | X | X | X | X | X | X | X | X | X | X% p.a. |
| Construction | X | X | X | X | X | X | X | X | X | X% p.a. |
| Industry | X | X | X | X | X | X | X | X | X | X% p.a. |
| Others | X | X | X | X | X | X | X | X | X | X% p.a. |
| Construction Materials | X | X | X | X | X | X | X | X | X | X% p.a. |
| Printing Inks | X | X | X | X | X | X | X | X | X | X% p.a. |
| Offset | X | X | X | X | X | X | X | X | X | X% p.a. |
| Flexography | X | X | X | X | X | X | X | X | X | X% p.a. |
| Others | X | X | X | X | X | X | X | X | X | X% p.a. |
| Paper | X | X | X | X | X | X | X | X | X | X% p.a. |
| Other Applications | X | X | X | X | X | X | X | X | X | X% p.a. |
| Total | X | X | X | X | X | X | X | X | X | X% p.a. |

Table: Demand for pigments in Asia-Pacific from 2018 to 2030 – split by applications

Market Study: "Pigments - World (8th edition)"

31 Countries, 62 Producers, 430 Pages, 118 Graphs, 308 Tables, 12/2023

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2 Market Data:

Country Profiles

(Revenues, production, import & export, demand split by application and by product type, and demand for pigments per application in 31 countries)

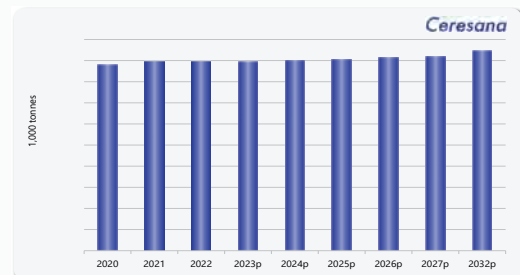
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2.1.3 France

2.1.3.1 Demand and Revenues

Demand for pigments in France amounted to X tonnes in 2022. The market volume is expected to increase to approx. X tonnes by the end of our forecast period. Revenues generated with pigments amounted to approximately EUR X million in 2022. Over the next ten years, we expect this figure to grow by around X% p.a.



Graph: Demand in France from 2020 to 2032

| Revenues | 2020 | 2021 | 2022 | 2023p | 2024p | 2025p | 2026p | 2027p | 2028p | 2029p | 2030p | 2031p | 2032p | 2022-2032 |
|-------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| million USD | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| million EUR | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |

Table: Revenues generated in France from 2020 to 2032, in million USD and million EUR

In 2022, the segment "paints and coatings" represented the largest submarket. From 2022 to 2032, demand in the application areas "plastics" and "construction materials" is expected to experience the highest percentage increase.

| in 1,000 tonnes | 2020 | 2021 | 2022 | 2023p | 2024p | 2025p | 2026p | 2027p | 2028p | 2029p | 2030p | 2031p | 2032p | 2022-2032 |
|------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Paints and coatings | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Plastics | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Construction materials | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Printing inks | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Paper | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Others | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Total | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |

Table: Demand in France from 2020 to 2032 – split by application

| in 1,000 tonnes | 2020 | 2021 | 2022 | 2023p | 2024p | 2025p | 2026p | 2027p | 2028p | 2029p | 2030p | 2031p | 2032p | 2022-2032 |
|------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Titanium dioxide | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Carbon black | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Iron oxide | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Other inorganics | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Organics | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Total | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |

Table: Demand in France from 2020 to 2032 – split by product

| in 1,000 tonnes | 2020 | 2021 | 2022 | 2023p | 2024p | 2025p | 2026p | 2027p | 2028p | 2029p | 2030p | 2031p | 2032p | 2022-2032 |
|---------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Paints and coatings | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Plastics | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Printing inks | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Paper | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Others | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |
| Total | X | X | X | X | X | X | X | X | X | X | X | X | X | X% p.a. |

Table: Demand for titanium dioxide in France from 2020 to 2032 – split by application

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Austria (1 Producer)
Belgium (1)
Germany (8)
Italy (1)
Luxembourg (2)
Spain (2)
United Kingdom (1)

3.2 Eastern Europe

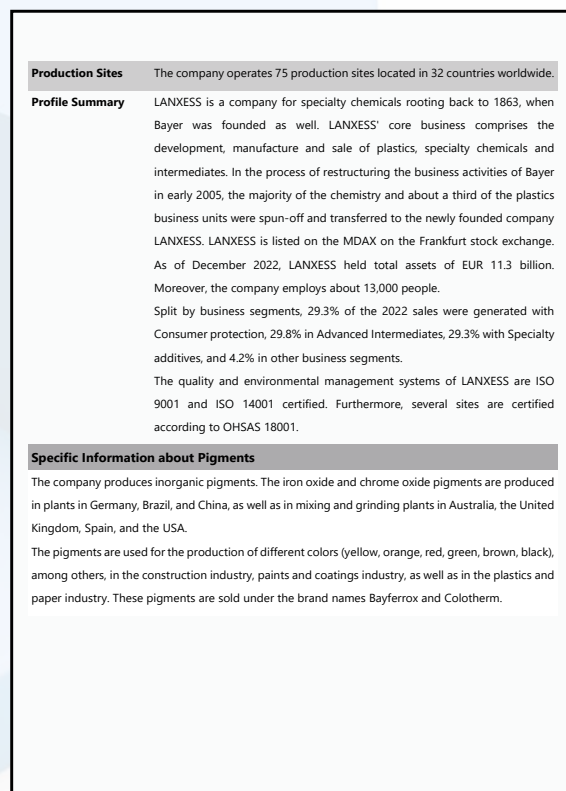
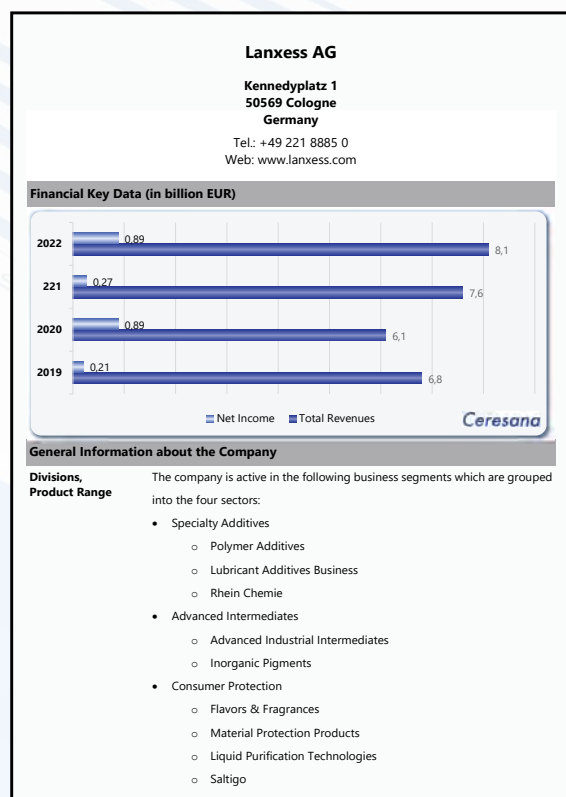
Czechia (1)
Poland (1)
Russia (1)
Slovenia (1)

3.3 North America

Canada (1)
Mexico (1)
USA (11)

3.4 Asia-Pacific

China (8)
Hong Kong (1)
India (8)
Japan (9)
Singapore (1)
South Korea (1)
Taiwan (1)

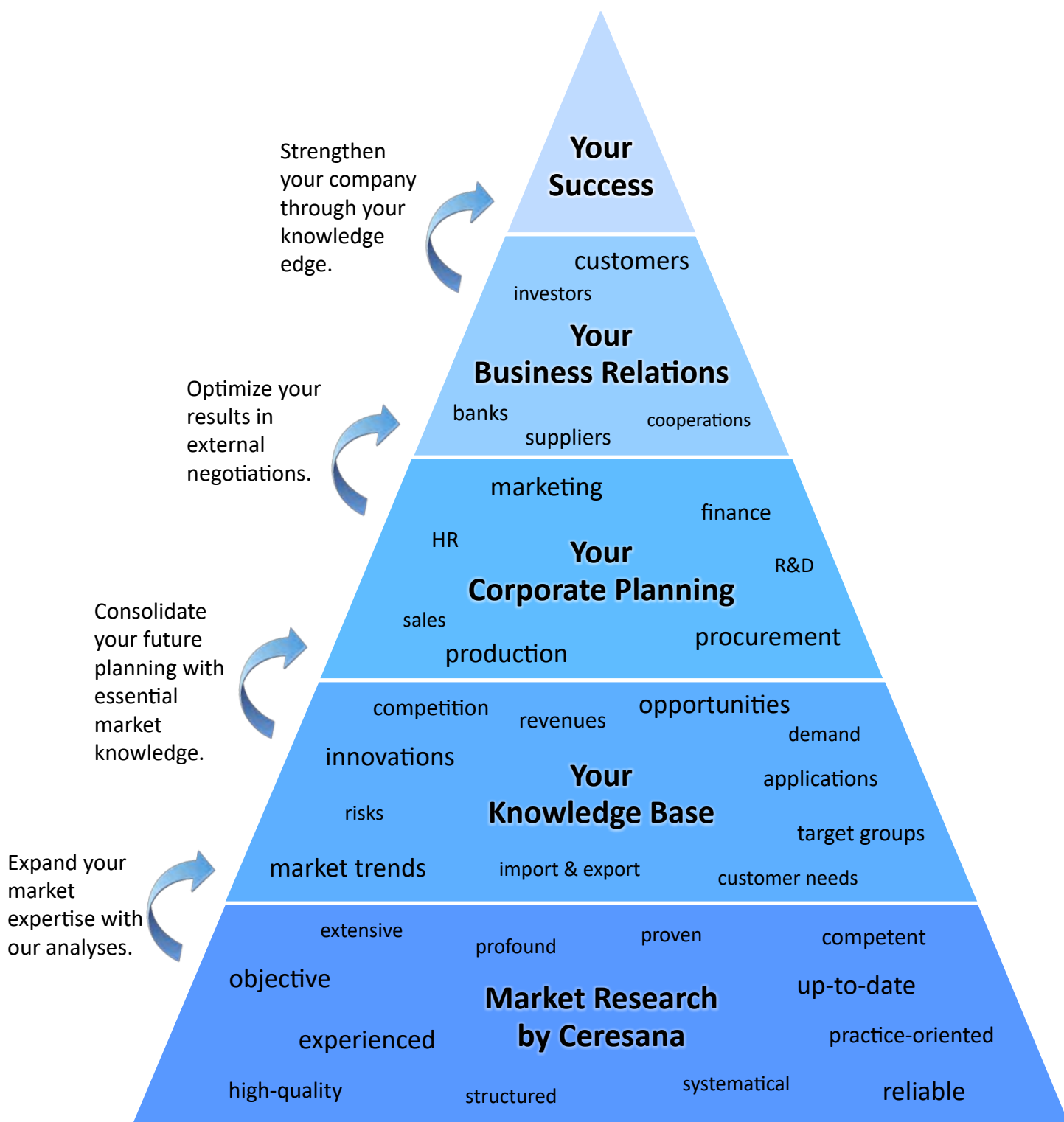


*Note: The profiles are assigned to the country in which the company or holding is headquartered. Profiles also include JVs and subsidiaries.

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