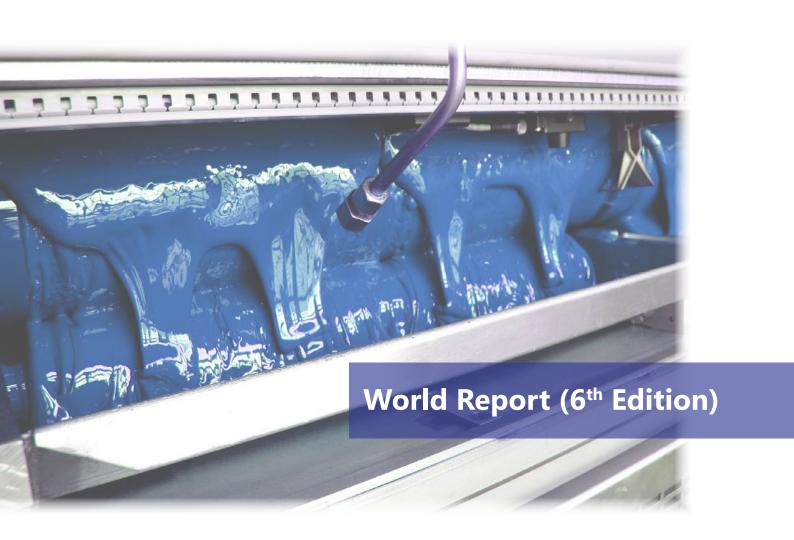
Market Study: Printing Inks





This brochure provides further information on the study: "Printing Inks – World (6th Edition)"

Executive Summary

Are young people returning to printed books, or at least to books-on-demand or photo books? In any case, the decline in this sector of the printing industry is slowing down. The latest edition of Ceresana's global printing inks market report shows opposing trends: Publication printing continues to decrease, including the printing of advertising brochures and catalogs. However, demand for other print products is increasing. Despite trade wars and disrupted supply chains, growing consumption, particularly in the emerging markets, is driving packaging printing, for example of labels. Not only packaging of all kinds is printed, but also products such as decorative papers and textiles. Market researchers at Ceresana forecast that global demand for printing inks will increase by an average of 0.9% annually until 2034.

Opportunities & Challenges for Printing Inks

E-commerce and the packaging boom are driving demand for shipping packaging made of flexible plastics and corrugated cardboard in particular, but also for shrink labels, shrink sleeves, aseptic packaging, beverage packaging, and specially coated packaging paper. With smaller batches and more frequent redesigns, the number of print jobs grows, while at the same time print runs decrease as product variants increase. In addition to the "explosion" of SKU identification codes, government regulations and increasingly stringent traceability requirements are accelerating the need for functional and variable printing solutions. Flexographic and inkjet printing processes in particular are benefiting from the fact that flexibility and individualization are becoming more and more important.

Green Printing with Bio-Based Printing Inks

The use of energy-saving and more environmentally friendly printing processes is increasing significantly. VOC-free products that do

not release any volatile organic compounds, i.e. water-based printing inks and radiation-curing UV printing inks, benefit in particular from the increasingly strict labeling requirements and regulations for chemicals and food contact materials. Bio-based printing inks do not release any toxic heavy metals. A reduced mineral oil content is not only beneficial for recycling or composting paper packaging.

Current Global Printing Inks Market Report:

Chapter 1 provides data on production, demand, and revenues for 7 regions of the world, including forecasts up to 2034. The demand for printing inks is broken down by relevant subcategories, including the analysis of various application areas, printing processes, and packaging types.

For 7 application areas, the revenues generated with and the demand for printing inks are broken down. Demand is also analyzed according to 8 printing processes, 6 printing ink types, and 6 packaging types. Furthermore, demand in each of the 7 application areas mentioned is shown separately for all 8 printing processes.

In **Chapter 2**, the 17 most important national markets are examined in detail. For each country, comprehensive data on production, import, export, demand, and revenues are given. The demand is subdivided according to application areas, printing processes, and printing ink types. In addition, the demand per printing process is split by the individual application areas. Sales are also broken down into application areas.

Chapter 3 provides detailed company profiles of 40 printing ink manufacturers such as ALTANA, Avient, Avery Dennison, DuPont, Fujifilm, Kao, and International Paper.

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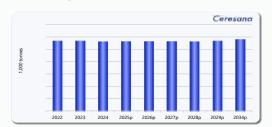
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2.2.1 Poland

2.2.1.1 Demand and Revenues

Total demand for printing inks in Poland amounted to approx. X tonnes in 2024. We forecast demand to increase by X% p.a. to approx. X tonnes in 2034.

The Polish market volume regarding revenues amounted to approx. EUR X million in 2024. In 2034, we expect a value of EUR X million.



Graph: Demand in Poland from 2022 to 2034

Revenues	2022	2023	2024	2025p	2026p	2027p	2028p	2029p	2034p	2024- 2034
Million USD	Х	Х	Х	Х	х	Х	Х	х	х	X% p.a.
Million EUR	Х	Х	х	Х	х	Х	х	Х	Х	X% p.a.

p.a. Table1: Revenues generated in Poland from 2022 to 2034, in million USD and million EUR

General Economic Situation:

Since the end of communism, and especially since joining the EU in 2004, Poland has achieved impressive economic growth and, in terms of per capita purchasing power, for example, has overtaken the "old" EU states of Greece and Portugal. Since 2002, the Polish economy had continuously grown faster than the EU average; in 2020, the year of COVID-19, the decline was less severe at -2%. However, Poland's GDP only grew by 0.2% in 2023. In 2024, Poland overtook the EU again (3% compared to 1.1%). The IMF expects growth of 3.5% for Poland in 2025. The situation is particularly difficult for...

Packaging Market:

The estimated turnover achieved by the approximately 7,000 companies in the Polish packaging industry amounts to the equivalent of EUR 16.65 billion, of which EUR 5.85 billion is generated with plastic packaging alone. According to figures from the Institute of Environmental Protection – National Research Institute (IEP-NRI), around 15.52 million tonnes of packaging were produced in Poland in 2022: 5.86 million tonnes of disposable and 32,200 tonnes of reusable packaging from card...

Million USD	2022	2023	2024	2025p	2026p	2027p	2028p	2029p	2034p	2024- 2034
Books	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Magazines	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Newspaper	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Advertising and Catalogs	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Labels	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Packaging	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Others	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Total	Х	х	х	х	х	х	х	х	х	X % p.a.

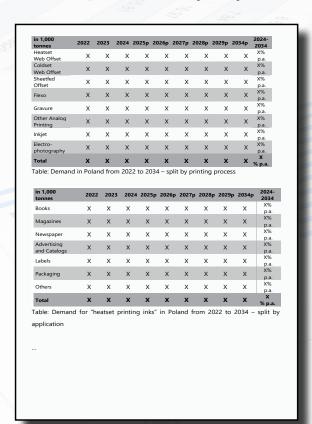
in 1,000 tonnes	2022	2023	2024	2025p	2026р	2027p	2028p	2029p	2034p	2024- 2034
Books	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Magazines	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Newspaper	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Advertising and Catalogs	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Labels	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Packaging	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Others	Х	Х	Х	Х	Х	Х	Х	Х	Х	X% p.a.
Total	х	х	х	х	х	х	х	х	х	Х % р.а.

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Market Study: "Printing Inks – World (6th Edition)"

17 Countries, 40 Producers, 470 Pages, 94 Graphs, 440 Tables, 11/2025

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in 1,000 tonnes	2022	2023	2024	2025p	2026p	2027p	2028p	2029p	2034p	2024- 2034
Oil-Based	Х	Х	х	Х	Х	Х	Х	Х	Х	X% p.a.
Water-Based	Х	Х	Х	Х	х	Х	Х	х	Х	X% p.a.
Solvent-Based	х	х	х	х	х	х	х	×	х	X%
Radiation- Curing	Х	х	Х	х	х	х	х	х	Х	p.a. X% p.a.
Toner	х	х	Х	×	х	X	×	×	х	X% p.a.
Others	Х	х	Х	Х	х	х	Х	х	х	X% p.a.
Total	х	х	х	х	х	х	х	х	х	Х % р.а.
olume to am	ount to	appro	ox. X to							
volume to am verage increa	ount to	appro	ox. X to year.	onnes i		l. Relat	ive to 2	2024, tl	his con	
volume to am verage increa in 1,000 tonnes	ount to	appro	ox. X to year.	onnes i	in 2034	l. Relat	ive to 2	2024, tl	his con	2024- 2034 X%
volume to am verage increa in 1,000 tonnes	ount to	appro % per y	ox. X to year. 2024	2025p	2034 2026p	2027p	2028p	2024, ti	his con	2024- 2034 X% p.a. X%
rolume to am verage increa in 1,000 tonnes Production	ount to ase of X 2022 X	2023	ox. X to year. 2024 X	2025p	2026p	2027p	2028p	2024, tl 2029p X	2034p	2024- 2034 X% p.a. X% p.a.
rolume to am average increa in 1,000 tonnes Production Import Export	ount to ase of X 2022 X X	2023 X	ox. X to year. 2024 X	2025p X	2026p X	2027p X	2028p X	2024, tl	2034p X	2024- 2034 X% p.a. X% p.a.
Around X ton volume to am average increa- in 1,000 tonnes Production Import Export Demand Fable: Product	zozz X X X	2023 X X X	year. 2024 X X	2025p X X X	2026p X X	2027p X X X	2028p X X	2024, tl	2034p X X X X X Xtto 2034	2024- 2034 X% p.a. X% p.a. X% p.a. X% p.a.

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(For each country:
Production, import, and
export, revenues per
application, demand
per application, printing process, printing
ink type, and printing
process split by application)

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3.1 Western Europe

Belgium (1 Producer)
Germany (7)
Italy (1)
Luxembourg (1)
Switzerland (1)
United Kingdom (1)

3.2 Eastern Europe

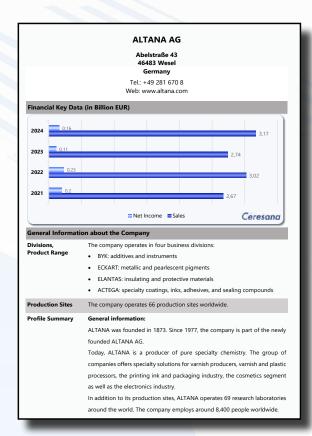
Greece (1) Türkiye (1)

3.3 North America

Mexico (1) USA (10)

3.4 Asia-Pacific

China (4) India (1) Japan (10)



Financial information

ALTANA held total assets of EUR 4.46 billion in 2024. R&D expenditure amounted to about EUR 213 million.

Split by business segment, 42.2% of sales in 2024 were generated with BYK, 27.7% with ELANTAS, 16.4% with ACTEGA, and 13.7% with ECKART.

Split by region, 37.0% of sales were generated in Europe, 27.9% in the Americas, 33.3% in Asia, and 1.8% in other regions.

Current new

In 2023, BYK acquired US-based company Imaginant Inc. and ELANTAS acquired a majority stake in the Swiss company Von Roll Holding AG.

In 2024, Altana's division BYK and the Finnish company NORDTREAT initiated the joint development of bio-based flame-retardant additives.

In the same year, FCKART appounced the acquisition of Silbertine, an US-

based manufacturer of aluminum effect pigments.

Furthermore, ECKART entered a strategic alliance with Runaya to establish a joint venture and a new facility in India.

In 2025, ALTANA successfully scaled up the production of UV-curing resins for industrial additive serial production and supplied them to a medical technology company in the USA.

ISO certifications:

In 2024, 86% of production sites were certified according to ISO 14001 and 8 sites had obtained the ISO 50001 certification. Many of ALTANA's sites are also certified according to ISO 9001 and ISO 45001.

pecific Information about Printing Inks

ALTANA AG offers printing inks through its business segments ACTEGA and ECKART.

ACTEGA offers a wide range of printing inks for paper & board, flexible packaging, metal packaging, and labels. They include water-based, UV-curing, LED-curing, solvent-based, and oil-based printing inks suitable for processes such as sheetfed offset, web offset, flexographic, and screen printing. ECKART offers metallic and effect printing inks for flexo, gravure, offset, and screen printing. They are marketed under the names METALSTAR, TOPSTAR, ULTRASTAR, PLATINSTAR, PRISMASTAR, and ROTOSTAR. These printing inks are suitable for a wide range of applications within the packaging industry.

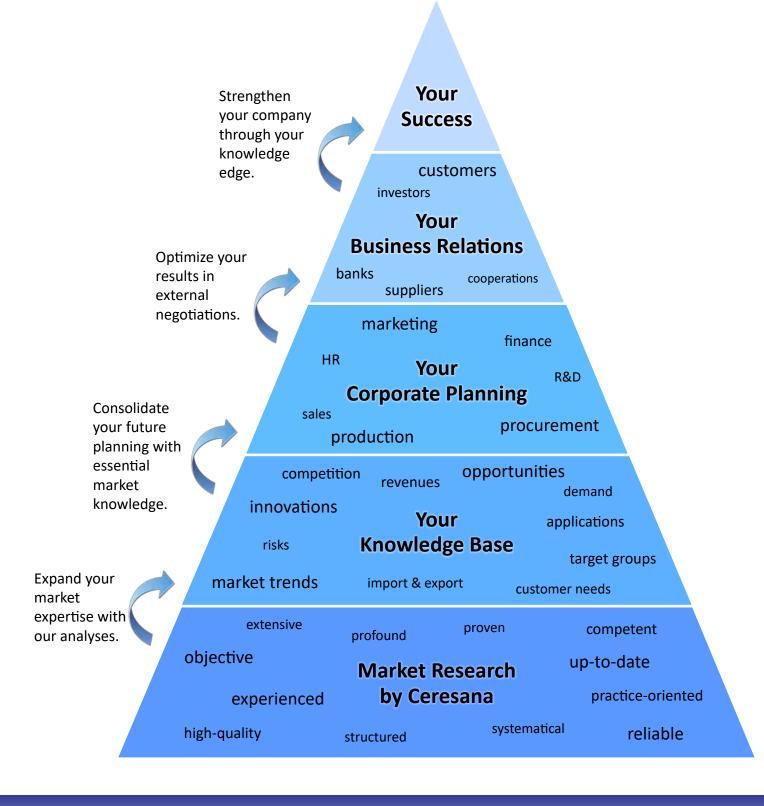
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^{*}Note: The profiles are assigned to the country in which the company or holding is headquartered. Profiles also include JVs and subsidiaries.

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<u>Bioplastic Packaging – World</u> <u>Plastic Pipes – Europe / – World</u>

<u>Bioplastic Films – World</u> <u>Plastic Windows – World</u>

<u>Bioplastics – World</u> <u>Printing Inks – Europe</u> / <u>– World</u>

<u>Polylactic Acid – World</u> <u>Windows & Doors – Europe</u>

<u>Carbon Black – World</u> <u>Composites (CFRP & GFRP) – World</u>

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<u>Plastic Additives – World</u> <u>Plastics – Europe</u> / <u>– World</u>

<u>Plasticizers – World</u> <u>Polyethylene (LDPE) – World</u>

<u>Solvents – World</u> <u>Polyethylene (LLDPE) – World</u>

<u>Stabilizers – World</u> <u>Polypropylene – World</u>

<u>Surfactants – World</u> <u>Polyvinyl Chloride – World</u>

Titanium Dioxide – World Silicones – World

<u>Synthetic Rubber – World</u>

<u>Bags, Sacks & Pouches – Europe</u> / <u>– World</u>

Corrugated Board & Solid Board – Europe

Thermoplastic Elastomers – World

Flexible Packaging – Europe Automotive Coatings – World

<u>Food Packaging – Europe</u> <u>Automotive Plastics – Europe</u> / <u>– World</u>

<u>Labels – Europe</u> <u>Hybrid & Electric Cars – Europe</u>

<u>Plastic Caps & Closures – Europe / – World</u>

Plastic Films - Europe / - World



Plastics

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