

Zinc Dialkyldithiophosphates Additive Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

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Abstracts

The Global Zinc Dialkyldithiophosphates Additive Market was valued at USD 3.4 billion in 2024 and is projected to experience steady growth at 4.1% CAGR from 2025 to 2034. This growth is driven primarily by the increasing demand for high-performance engine oils in the automotive industry. Modern engines, particularly those in high-performance vehicles, require specialized oils that offer superior protection against wear and tear. ZDDP additives play a crucial role in ensuring engine longevity and optimal performance, especially under demanding conditions.

The market is segmented by type into primary alkyl ZDDPs and secondary alkyl ZDDPs. The primary alkyl ZDDP segment holds a dominant share of the market, with a revenue of USD 2.4 billion in 2024. This is largely due to their widespread use in high-performance engine oils, where their superior anti-wear and antioxidant properties are vital for automotive and industrial applications. These additives provide long-lasting protection, which is essential for modern engines operating under extreme conditions. As the automotive industry grows and the need for more efficient, high-performing engine oils rises, the demand for primary alkyl ZDDPs is expected to continue to increase.

The market is also divided by application, with engine oil additives, antioxidants, corrosion inhibitors, gear oils, hydraulic fluids, and compressor and turbine oils being the key categories. The engine oil additive segment leads the market, accounting for a 47% share in 2024. ZDDP additives are critical in enhancing engine oil performance, offering protection against wear, oxidation, and corrosion in engine components. As stricter emission standards and higher fuel efficiency requirements come into play, the demand for high-performance engine oils and, by extension, ZDDP additives continues

to rise. This makes the engine oil additive segment a significant driver of market growth.

U.S. zinc dialkyldithiophosphates additives market is forecasted to generate USD 1 billion in revenue in 2024, largely due to strong demand in the automotive sector. The growing production of advanced vehicles, along with stringent regulatory standards on emissions and fuel efficiency, supports the need for high-quality lubricants containing ZDDP additives. As these regulations become more stringent, the demand for ZDDP additives in automotive applications is expected to remain robust, sustaining the growth of the market over the next decade.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news & initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Increasing demand for high-performance engine oils in the automotive industry
 - 3.6.1.2 Rising adoption of ZDDP in industrial machinery for enhanced lubrication and wear protection
 - 3.6.1.3 Expanding automotive production in emerging markets, driving demand for

additives

3.6.2 Industry pitfalls & challenges

3.6.2.1 Regulatory restrictions on the use of phosphorus-based additives in some regions

3.6.2.2 Volatility in raw material prices, impacting production costs

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

CHAPTER 5 MARKET SIZE AND FORECAST, BY TYPE, 2021-2034 (USD BILLION, KILO TONS)

5.1 Key trends

5.2 Primary alkyl zinc dialkyldithiophosphates

5.3 Secondary alkyl zinc dialkyldithiophosphates

CHAPTER 6 MARKET SIZE AND FORECAST, BY APPLICATION, 2021-2034 (USD BILLION, KILO TONS)

6.1 Key trends

6.2 Antioxidants and corrosion inhibitors

6.3 Engine oil additive

6.4 Gear oils

6.5 Hydraulic fluids

6.6 Compressor and turbine oils

6.7 Others

CHAPTER 7 MARKET SIZE AND FORECAST, BY END USE INDUSTRY, 2021-2034 (USD BILLION, KILO TONS)

7.1 Key trends

7.2 Automotive

7.3 Industrial machinery

7.4 Others

CHAPTER 8 MARKET SIZE AND FORECAST, BY REGION, 2021-2034 (USD BILLION, KILO TONS)

8.1 Key trends

8.2 North America

8.2.1 U.S.

8.2.2 Canada

8.3 Europe

8.3.1 UK

8.3.2 Germany

8.3.3 France

8.3.4 Italy

8.3.5 Spain

8.3.6 Russia

8.4 Asia Pacific

8.4.1 China

8.4.2 India

8.4.3 Japan

8.4.4 South Korea

8.4.5 Australia

8.5 Latin America

8.5.1 Brazil

8.5.2 Mexico

8.6 MEA

8.6.1 South Africa

8.6.2 Saudi Arabia

8.6.3 UAE

CHAPTER 9 COMPANY PROFILES

9.1 Addilex

9.2 Afton Chemical

9.3 Chetas Biochem

9.4 Chevron Oronite

9.5 Ganesh Benzoplast

9.6 Gbl Chemical

9.7 Infineum

9.8 Lubrizol

9.9 RB Products

9.10 Ruhani Lubricants

9.11 Yasho Industries

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