

TDAE Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Sales Channel (Direct, Indirect), By End Use (Tire Production, Belts & Tapes, Shoe Manufacturing, Cable Manufacturing, Others), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Treated Distillate Aromatic Extract (TDAE) Market was valued at USD 320.30 Million in 2024 and is projected to reach USD 463.09 Million by 2030, growing at a CAGR of 2.90% during the forecast period. TDAE has become an increasingly preferred alternative to conventional aromatic oils such as Distillate Aromatic Extract (DAE), particularly in markets where environmental standards are stringent, including Europe and North America. With its non-carcinogenic profile and eco-friendly nature, TDAE is widely utilized in tire manufacturing and is gaining ground in applications such as industrial rubber goods, footwear, adhesives, and automotive components. Its desirable properties—including low volatility, high viscosity index, and low environmental impact—make it suitable for a range of rubber processing uses. While the market faces challenges like crude oil price volatility and feedstock supply disruptions, innovation in product development, including bio-based alternatives and performance-enhancing formulations, is expected to open new avenues for growth.

Key Market Drivers

Growing Demand of TDAE in Automotive Industry

The global automotive industry is a major driver of the TDAE market, with automobile sales reaching 74.6 million units in 2024—a 2.5% rise over the previous year. China, alone, contributed nearly 31% of global sales. TDAE is increasingly used in automotive rubber parts due to its compatibility with both synthetic and natural rubber, along with its low polycyclic aromatic hydrocarbon (PAH) content. This makes it ideal for components such as tires, hoses, belts, and seals, which must meet stringent environmental and safety regulations. Tire manufacturers are transitioning from DAE to TDAE to comply with the European Union's REACH standards. Supporting this trend, advanced facilities like PT Enerco Rpo Internasional's TDAE plant in Indonesia, featuring Sulzer's large-scale agitated extraction column, are boosting production of environmentally safe rubber process oils. Rising vehicle production, including electric and hybrid models, coupled with the demand for high-performance and heat-resistant materials, continues to increase TDAE consumption in the automotive sector.

Key Market Challenges

Volatility in Crude Oil Prices

Price fluctuations in crude oil remain a critical challenge for the TDAE market, given its dependence on petroleum-derived feedstocks. Changes in crude oil prices directly influence TDAE production costs, disrupting procurement and pricing strategies across the value chain. When oil prices rise, refining and distillation expenses also increase, affecting the profitability of TDAE manufacturers. Conversely, sharp price drops can destabilize long-term contracts and reduce incentives to invest in production infrastructure. These fluctuations introduce uncertainty, especially for downstream sectors like the rubber and tire industries, complicating cost planning and impacting supply consistency.

Key Market Trends

Growing Use of TDAE in Construction Industry

The expanding application of TDAE in construction is emerging as a significant market trend. In Australia, the construction industry accounts for over USD 162 billion annually and contributes nearly 10% to the national GDP. TDAE is being increasingly utilized in rubber-based construction materials such as sealing systems, expansion joints, rubber sheets, and waterproof membranes. Its ability to provide elasticity, abrasion resistance, and long-term durability makes it an ideal additive for high-performance construction components. Moreover, the product's eco-friendly attributes and compliance with

international safety regulations align with the sustainability goals of the global construction sector. As infrastructure development surges in emerging economies and smart city initiatives take off, demand for high-quality and environmentally responsible materials like TDAE is expected to rise steadily.

Key Market Players

LANXESS AG

BEHRAN OIL CO.

REPSOL, S.A.

ENI S.P.A.

GAZPROMNEFT LUBRICANTS, LTD.

ATDM co LTD

H&R GROUP US, Inc.

NYNAS AB

CPC CORPORATION

ERGON, Inc.

Report Scope

In this report, the Global TDAE Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

TDAE Market, By Sales Channel:

Direct

Indirect

TDAE Market, By End Use:

Tire Production

Belts & Tapes

Shoe Manufacturing

Cable Manufacturing

Others

TDAE Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global TDAE Market.

Available Customizations

Global TDAE Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. IMPACT OF COVID-19 ON GLOBAL TDAE MARKET

5. GLOBAL TDAE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Sales Channel (Direct, Indirect)
 - 5.2.2. By End Use (Tire Production, Belts & Tapes, Shoe Manufacturing, Cable Manufacturing, Others)
 - 5.2.3. By Region

- 5.2.4. By Company (2024)
- 5.3. Market Map

6. NORTH AMERICA TDAE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Sales Channel
 - 6.2.2. By End Use
 - 6.2.3. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States TDAE Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Sales Channel
 - 6.3.1.2.2. By End Use
 - 6.3.2. Mexico TDAE Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Sales Channel
 - 6.3.2.2.2. By End Use
 - 6.3.3. Canada TDAE Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Sales Channel
 - 6.3.3.2.2. By End Use

7. EUROPE TDAE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Sales Channel
 - 7.2.2. By End Use
 - 7.2.3. By Country

7.3. Europe: Country Analysis

7.3.1. France TDAE Market Outlook

7.3.1.1. Market Size & Forecast

7.3.1.1.1. By Value

7.3.1.2. Market Share & Forecast

7.3.1.2.1. By Sales Channel

7.3.1.2.2. By End Use

7.3.2. Germany TDAE Market Outlook

7.3.2.1. Market Size & Forecast

7.3.2.1.1. By Value

7.3.2.2. Market Share & Forecast

7.3.2.2.1. By Sales Channel

7.3.2.2.2. By End Use

7.3.3. United Kingdom TDAE Market Outlook

7.3.3.1. Market Size & Forecast

7.3.3.1.1. By Value

7.3.3.2. Market Share & Forecast

7.3.3.2.1. By Sales Channel

7.3.3.2.2. By End Use

7.3.4. Italy TDAE Market Outlook

7.3.4.1. Market Size & Forecast

7.3.4.1.1. By Value

7.3.4.2. Market Share & Forecast

7.3.4.2.1. By Sales Channel

7.3.4.2.2. By End Use

7.3.5. Spain TDAE Market Outlook

7.3.5.1. Market Size & Forecast

7.3.5.1.1. By Value

7.3.5.2. Market Share & Forecast

7.3.5.2.1. By Sales Channel

7.3.5.2.2. By End Use

8. ASIA PACIFIC TDAE MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Sales Channel

8.2.2. By End Use

8.2.3. By Country

8.3. Asia Pacific: Country Analysis

8.3.1. China TDAE Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Sales Channel

8.3.1.2.2. By End Use

8.3.2. India TDAE Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Sales Channel

8.3.2.2.2. By End Use

8.3.3. South Korea TDAE Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Sales Channel

8.3.3.2.2. By End Use

8.3.4. Japan TDAE Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Sales Channel

8.3.4.2.2. By End Use

8.3.5. Australia TDAE Market Outlook

8.3.5.1. Market Size & Forecast

8.3.5.1.1. By Value

8.3.5.2. Market Share & Forecast

8.3.5.2.1. By Sales Channel

8.3.5.2.2. By End Use

9. SOUTH AMERICA TDAE MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Sales Channel

- 9.2.2. By End Use
- 9.2.3. By Country
- 9.3. South America: Country Analysis
 - 9.3.1. Brazil TDAE Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Sales Channel
 - 9.3.1.2.2. By End Use
 - 9.3.2. Argentina TDAE Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Sales Channel
 - 9.3.2.2.2. By End Use
 - 9.3.3. Colombia TDAE Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Sales Channel
 - 9.3.3.2.2. By End Use

10. MIDDLE EAST AND AFRICA TDAE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast
 - 10.2.1. By Sales Channel
 - 10.2.2. By End Use
 - 10.2.3. By Country
- 10.3. MEA: Country Analysis
 - 10.3.1. South Africa TDAE Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Sales Channel
 - 10.3.1.2.2. By End Use
 - 10.3.2. Saudi Arabia TDAE Market Outlook
 - 10.3.2.1. Market Size & Forecast

- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Sales Channel
 - 10.3.2.2.2. By End Use
- 10.3.3. UAE TDAE Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Sales Channel
 - 10.3.3.2.2. By End Use

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. DISRUPTIONS : CONFLICTS, PANDEMICS AND TRADE BARRIERS

14. GLOBAL TDAE MARKET: SWOT ANALYSIS

15. PORTERS FIVE FORCES ANALYSIS

- 15.1. Competition in the Industry
- 15.2. Potential of New Entrants
- 15.3. Power of Suppliers
- 15.4. Power of Customers
- 15.5. Threat of Substitute Products

16. COMPETITIVE LANDSCAPE

- 16.1. LANXESS AG
 - 16.1.1. Business Overview
 - 16.1.2. Company Snapshot

- 16.1.3. Products & Services
- 16.1.4. Financials (As Reported)
- 16.1.5. Recent Developments
- 16.1.6. Key Personnel Details
- 16.1.7. SWOT Analysis
- 16.2. BEHRAN OIL CO.
- 16.3. REPSOL, S.A.
- 16.4. ENI S.P.A.
- 16.5. GAZPROMNEFT LUBRICANTS, LTD.
- 16.6. ATDM CO LTD
- 16.7. H&R GROUP US, Inc.
- 16.8. NYNAS AB
- 16.9. CPC CORPORATION
- 16.10. ERGON, Inc.

17. STRATEGIC RECOMMENDATIONS

18. ABOUT US & DISCLAIMER

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