

Global Vacuum Quenching Oil Market Growth 2026-2032

<https://marketpublishers.com/r/G5FE3BF68C2FEN.html>

Date: May 2026

Pages: 112

Price: US\$ 3,660.00 (Single User License)

ID: G5FE3BF68C2FEN

Abstracts

The global Vacuum Quenching Oil market size is predicted to grow from US\$ 199 million in 2025 to US\$ 279 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

In 2025, the global production of vacuum quenching oil was approximately 61,200 tons, with an average selling price of around US\$3,320 per ton. Single-line production capacity is approximately 1,000-1,500 tons per year, with an average gross profit margin of about 10-20%. Vacuum quenching oil refers to a special quenching oil used in the quenching process under vacuum conditions. It features low saturated vapor pressure and excellent cooling performance, ensuring a bright surface and dimensional stability of workpieces after quenching in a vacuum environment.

The upstream raw materials for vacuum quenching oil mainly include highly refined mineral oils, synthetic hydrocarbons, and ester oils used as base oils, as well as various special additives such as antioxidants, brighteners, and cooling accelerators used to improve performance. Its downstream applications directly serve high-end manufacturing industries with extremely high requirements for part heat treatment quality. Core application industries include vacuum heat treatment processes for aerospace engine and airframe components, high-end automobiles (such as gearbox gears and drive shafts), precision molds, high-performance cutting tools, and precision bearings. Its demand is closely linked to advanced equipment manufacturing, breakthroughs in materials science, and manufacturing upgrading trends.

The vacuum quenching oil market has shown a steady growth trend in recent years, driven by the global manufacturing industry. With the increasing demand for high-end precision machining, particularly in the automotive, aerospace, mold manufacturing, and

metal processing sectors, vacuum quenching oil, as a crucial metal heat treatment medium, is gaining increasingly widespread application. Vacuum quenching oil is primarily used for quenching metal workpieces in a vacuum environment, possessing excellent cooling performance, low volatility, and superior oxidation stability. This makes it crucial in improving the hardness, wear resistance, and dimensional accuracy of metal components.

Market data indicates that with the rapid development of the automotive industry and the increasing demand for high-performance components, the market demand for vacuum quenching oil is also showing an upward trend. Furthermore, the stringent requirements for precision machining in industries such as electronics and aerospace have further propelled the development of this field. It is expected that in the coming years, with the strict implementation of environmental regulations, environmentally friendly vacuum quenching oil will become a significant development direction for the market.

Despite the promising market outlook, the vacuum quenching oil industry still faces challenges such as high raw material costs, technological innovation, and improvements in production processes. Overall, with the advancements in industrial automation and high-precision machining technologies, the market demand for vacuum quenching oil will continue to grow in the future, bringing new business opportunities for related companies.

LP Information, Inc. (LPI) ' newest research report, the 'Vacuum Quenching Oil Industry Forecast' looks at past sales and reviews total world Vacuum Quenching Oil sales in 2025, providing a comprehensive analysis by region and market sector of projected Vacuum Quenching Oil sales for 2026 through 2032. With Vacuum Quenching Oil sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vacuum Quenching Oil industry.

This Insight Report provides a comprehensive analysis of the global Vacuum Quenching Oil landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vacuum Quenching Oil portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vacuum Quenching Oil market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vacuum Quenching Oil and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vacuum Quenching Oil.

This report presents a comprehensive overview, market shares, and growth opportunities of Vacuum Quenching Oil market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mineral Oil-Based

Synthetic Oil-Based

Semi-Synthetic Oil-Based

Others

Segmentation by Method of Use:

Immersion Type Quenching Oil

Spray Type Quenching Oil

Segmentation by Cooling Rate:

Fast Cooling Vacuum Quenching Oil

Medium Cooling Vacuum Quenching Oil

Slow Cooling Vacuum Oil

Segmentation by Application:

Automobile Manufacturing

Aerospace

Medical Devices

Mold Manufacturing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Houghton

FUCHS

BP

Idemitsu

TotalEnergies

WEICON

Petrofer

Sinopec

Jingde Lubricating Oil

Yantai Thinking Finechem Technology

Shanghai Huifeng Petrochemical

Dongguan Dechen Environmental Protection Material

Dalian Haiwei Petrochemical

Liaoning Sante Petrochemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vacuum Quenching Oil market?

What factors are driving Vacuum Quenching Oil market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vacuum Quenching Oil market opportunities vary by end market size?

How does Vacuum Quenching Oil break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Vacuum Quenching Oil Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Vacuum Quenching Oil by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Vacuum Quenching Oil by Country/Region, 2021, 2025 & 2032

2.2 Vacuum Quenching Oil Segment by Type

- 2.2.1 Mineral Oil-Based
- 2.2.2 Synthetic Oil-Based
- 2.2.3 Semi-Synthetic Oil-Based
- 2.2.4 Others
- 2.2.5 Vacuum Quenching Oil Sales by Type
 - 2.2.5.1 Global Vacuum Quenching Oil Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Vacuum Quenching Oil Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Vacuum Quenching Oil Sale Price by Type (2021-2026)

2.3 Vacuum Quenching Oil Segment by Method of Use

- 2.3.1 Immersion Type Quenching Oil
- 2.3.2 Spray Type Quenching Oil
- 2.3.3 Vacuum Quenching Oil Sales by Method of Use
 - 2.3.3.1 Global Vacuum Quenching Oil Sales Market Share by Method of Use (2021-2026)
 - 2.3.3.2 Global Vacuum Quenching Oil Revenue and Market Share by Method of Use (2021-2026)

- 2.3.3.3 Global Vacuum Quenching Oil Sale Price by Method of Use (2021-2026)
- 2.4 Vacuum Quenching Oil Segment by Cooling Rate
 - 2.4.1 Fast Cooling Vacuum Quenching Oil
 - 2.4.2 Medium Cooling Vacuum Quenching Oil
 - 2.4.3 Slow Cooling Vacuum Oil
 - 2.4.4 Vacuum Quenching Oil Sales by Cooling Rate
 - 2.4.4.1 Global Vacuum Quenching Oil Sales Market Share by Cooling Rate (2021-2026)
 - 2.4.4.2 Global Vacuum Quenching Oil Revenue and Market Share by Cooling Rate (2021-2026)
 - 2.4.4.3 Global Vacuum Quenching Oil Sale Price by Cooling Rate (2021-2026)
- 2.5 Vacuum Quenching Oil Segment by Application
 - 2.5.1 Automobile Manufacturing
 - 2.5.2 Aerospace
 - 2.5.3 Medical Devices
 - 2.5.4 Mold Manufacturing
 - 2.5.5 Others
 - 2.5.6 Vacuum Quenching Oil Sales by Application
 - 2.5.6.1 Global Vacuum Quenching Oil Sale Market Share by Application (2021-2026)
 - 2.5.6.2 Global Vacuum Quenching Oil Revenue and Market Share by Application (2021-2026)
 - 2.5.6.3 Global Vacuum Quenching Oil Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Vacuum Quenching Oil Breakdown Data by Company
 - 3.1.1 Global Vacuum Quenching Oil Annual Sales by Company (2021-2026)
 - 3.1.2 Global Vacuum Quenching Oil Sales Market Share by Company (2021-2026)
- 3.2 Global Vacuum Quenching Oil Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Vacuum Quenching Oil Revenue by Company (2021-2026)
 - 3.2.2 Global Vacuum Quenching Oil Revenue Market Share by Company (2021-2026)
- 3.3 Global Vacuum Quenching Oil Sale Price by Company
- 3.4 Key Manufacturers Vacuum Quenching Oil Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Vacuum Quenching Oil Product Location Distribution
 - 3.4.2 Players Vacuum Quenching Oil Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR VACUUM QUENCHING OIL BY GEOGRAPHIC REGION

4.1 World Historic Vacuum Quenching Oil Market Size by Geographic Region (2021-2026)

4.1.1 Global Vacuum Quenching Oil Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Vacuum Quenching Oil Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Vacuum Quenching Oil Market Size by Country/Region (2021-2026)

4.2.1 Global Vacuum Quenching Oil Annual Sales by Country/Region (2021-2026)

4.2.2 Global Vacuum Quenching Oil Annual Revenue by Country/Region (2021-2026)

4.3 Americas Vacuum Quenching Oil Sales Growth

4.4 APAC Vacuum Quenching Oil Sales Growth

4.5 Europe Vacuum Quenching Oil Sales Growth

4.6 Middle East & Africa Vacuum Quenching Oil Sales Growth

5 AMERICAS

5.1 Americas Vacuum Quenching Oil Sales by Country

5.1.1 Americas Vacuum Quenching Oil Sales by Country (2021-2026)

5.1.2 Americas Vacuum Quenching Oil Revenue by Country (2021-2026)

5.2 Americas Vacuum Quenching Oil Sales by Type (2021-2026)

5.3 Americas Vacuum Quenching Oil Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Vacuum Quenching Oil Sales by Region

6.1.1 APAC Vacuum Quenching Oil Sales by Region (2021-2026)

6.1.2 APAC Vacuum Quenching Oil Revenue by Region (2021-2026)

6.2 APAC Vacuum Quenching Oil Sales by Type (2021-2026)

6.3 APAC Vacuum Quenching Oil Sales by Application (2021-2026)

6.4 China

- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe Vacuum Quenching Oil by Country
 - 7.1.1 Europe Vacuum Quenching Oil Sales by Country (2021-2026)
 - 7.1.2 Europe Vacuum Quenching Oil Revenue by Country (2021-2026)
- 7.2 Europe Vacuum Quenching Oil Sales by Type (2021-2026)
- 7.3 Europe Vacuum Quenching Oil Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Vacuum Quenching Oil by Country
 - 8.1.1 Middle East & Africa Vacuum Quenching Oil Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Vacuum Quenching Oil Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Vacuum Quenching Oil Sales by Type (2021-2026)
- 8.3 Middle East & Africa Vacuum Quenching Oil Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Vacuum Quenching Oil
- 10.3 Manufacturing Process Analysis of Vacuum Quenching Oil
- 10.4 Industry Chain Structure of Vacuum Quenching Oil

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Vacuum Quenching Oil Distributors
- 11.3 Vacuum Quenching Oil Customer

12 WORLD FORECAST REVIEW FOR VACUUM QUENCHING OIL BY GEOGRAPHIC REGION

- 12.1 Global Vacuum Quenching Oil Market Size Forecast by Region
 - 12.1.1 Global Vacuum Quenching Oil Forecast by Region (2027-2032)
 - 12.1.2 Global Vacuum Quenching Oil Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Vacuum Quenching Oil Forecast by Type (2027-2032)
- 12.7 Global Vacuum Quenching Oil Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Houghton
 - 13.1.1 Houghton Company Information
 - 13.1.2 Houghton Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.1.3 Houghton Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Houghton Main Business Overview
 - 13.1.5 Houghton Latest Developments
- 13.2 FUCHS

- 13.2.1 FUCHS Company Information
- 13.2.2 FUCHS Vacuum Quenching Oil Product Portfolios and Specifications
- 13.2.3 FUCHS Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin
(2021-2026)
- 13.2.4 FUCHS Main Business Overview
- 13.2.5 FUCHS Latest Developments
- 13.3 BP
- 13.3.1 BP Company Information
- 13.3.2 BP Vacuum Quenching Oil Product Portfolios and Specifications
- 13.3.3 BP Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin
(2021-2026)
- 13.3.4 BP Main Business Overview
- 13.3.5 BP Latest Developments
- 13.4 Idemitsu
- 13.4.1 Idemitsu Company Information
- 13.4.2 Idemitsu Vacuum Quenching Oil Product Portfolios and Specifications
- 13.4.3 Idemitsu Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin
(2021-2026)
- 13.4.4 Idemitsu Main Business Overview
- 13.4.5 Idemitsu Latest Developments
- 13.5 TotalEnergies
- 13.5.1 TotalEnergies Company Information
- 13.5.2 TotalEnergies Vacuum Quenching Oil Product Portfolios and Specifications
- 13.5.3 TotalEnergies Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin
(2021-2026)
- 13.5.4 TotalEnergies Main Business Overview
- 13.5.5 TotalEnergies Latest Developments
- 13.6 WEICON
- 13.6.1 WEICON Company Information
- 13.6.2 WEICON Vacuum Quenching Oil Product Portfolios and Specifications
- 13.6.3 WEICON Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin
(2021-2026)
- 13.6.4 WEICON Main Business Overview
- 13.6.5 WEICON Latest Developments
- 13.7 Petrofer
- 13.7.1 Petrofer Company Information
- 13.7.2 Petrofer Vacuum Quenching Oil Product Portfolios and Specifications
- 13.7.3 Petrofer Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin
(2021-2026)

- 13.7.4 Petrofer Main Business Overview
- 13.7.5 Petrofer Latest Developments
- 13.8 Sinopec
 - 13.8.1 Sinopec Company Information
 - 13.8.2 Sinopec Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.8.3 Sinopec Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Sinopec Main Business Overview
 - 13.8.5 Sinopec Latest Developments
- 13.9 Jingde Lubricating Oil
 - 13.9.1 Jingde Lubricating Oil Company Information
 - 13.9.2 Jingde Lubricating Oil Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.9.3 Jingde Lubricating Oil Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Jingde Lubricating Oil Main Business Overview
 - 13.9.5 Jingde Lubricating Oil Latest Developments
- 13.10 Yantai Thinking Finechem Technology
 - 13.10.1 Yantai Thinking Finechem Technology Company Information
 - 13.10.2 Yantai Thinking Finechem Technology Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.10.3 Yantai Thinking Finechem Technology Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Yantai Thinking Finechem Technology Main Business Overview
 - 13.10.5 Yantai Thinking Finechem Technology Latest Developments
- 13.11 Shanghai Huifeng Petrochemical
 - 13.11.1 Shanghai Huifeng Petrochemical Company Information
 - 13.11.2 Shanghai Huifeng Petrochemical Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.11.3 Shanghai Huifeng Petrochemical Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Shanghai Huifeng Petrochemical Main Business Overview
 - 13.11.5 Shanghai Huifeng Petrochemical Latest Developments
- 13.12 Dongguan Dechen Environmental Protection Material
 - 13.12.1 Dongguan Dechen Environmental Protection Material Company Information
 - 13.12.2 Dongguan Dechen Environmental Protection Material Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.12.3 Dongguan Dechen Environmental Protection Material Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.12.4 Dongguan Dechen Environmental Protection Material Main Business Overview
- 13.12.5 Dongguan Dechen Environmental Protection Material Latest Developments
- 13.13 Dalian Haiwei Petrochemical
 - 13.13.1 Dalian Haiwei Petrochemical Company Information
 - 13.13.2 Dalian Haiwei Petrochemical Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.13.3 Dalian Haiwei Petrochemical Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Dalian Haiwei Petrochemical Main Business Overview
 - 13.13.5 Dalian Haiwei Petrochemical Latest Developments
- 13.14 Liaoning Sante Petrochemical
 - 13.14.1 Liaoning Sante Petrochemical Company Information
 - 13.14.2 Liaoning Sante Petrochemical Vacuum Quenching Oil Product Portfolios and Specifications
 - 13.14.3 Liaoning Sante Petrochemical Vacuum Quenching Oil Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Liaoning Sante Petrochemical Main Business Overview
 - 13.14.5 Liaoning Sante Petrochemical Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Vacuum Quenching Oil Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Vacuum Quenching Oil Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Mineral Oil-Based

Table 4. Major Players of Synthetic Oil-Based

Table 5. Major Players of Semi-Synthetic Oil-Based

Table 6. Major Players of Others

Table 7. Global Vacuum Quenching Oil Sales by Type (2021-2026) & (Kilotons)

Table 8. Global Vacuum Quenching Oil Sales Market Share by Type (2021-2026)

Table 9. Global Vacuum Quenching Oil Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Vacuum Quenching Oil Revenue Market Share by Type (2021-2026)

Table 11. Global Vacuum Quenching Oil Sale Price by Type (2021-2026) & (US\$/Ton)

Table 12. Major Players of Immersion Type Quenching Oil

Table 13. Major Players of Spray Type Quenching Oil

Table 14. Global Vacuum Quenching Oil Sales by Method of Use (2021-2026) & (Kilotons)

Table 15. Global Vacuum Quenching Oil Sales Market Share by Method of Use (2021-2026)

Table 16. Global Vacuum Quenching Oil Revenue by Method of Use (2021-2026) & (\$ million)

Table 17. Global Vacuum Quenching Oil Revenue Market Share by Method of Use (2021-2026)

Table 18. Global Vacuum Quenching Oil Sale Price by Method of Use (2021-2026) & (US\$/Ton)

Table 19. Major Players of Fast Cooling Vacuum Quenching Oil

Table 20. Major Players of Medium Cooling Vacuum Quenching Oil

Table 21. Major Players of Slow Cooling Vacuum Oil

Table 22. Global Vacuum Quenching Oil Sales by Cooling Rate (2021-2026) & (Kilotons)

Table 23. Global Vacuum Quenching Oil Sales Market Share by Cooling Rate (2021-2026)

Table 24. Global Vacuum Quenching Oil Revenue by Cooling Rate (2021-2026) & (\$ million)

Table 25. Global Vacuum Quenching Oil Revenue Market Share by Cooling Rate

(2021-2026)

Table 26. Global Vacuum Quenching Oil Sale Price by Cooling Rate (2021-2026) & (US\$/Ton)

Table 27. Global Vacuum Quenching Oil Sale by Application (2021-2026) & (Kilotons)

Table 28. Global Vacuum Quenching Oil Sale Market Share by Application (2021-2026)

Table 29. Global Vacuum Quenching Oil Revenue by Application (2021-2026) & (\$ million)

Table 30. Global Vacuum Quenching Oil Revenue Market Share by Application (2021-2026)

Table 31. Global Vacuum Quenching Oil Sale Price by Application (2021-2026) & (US\$/Ton)

Table 32. Global Vacuum Quenching Oil Sales by Company (2021-2026) & (Kilotons)

Table 33. Global Vacuum Quenching Oil Sales Market Share by Company (2021-2026)

Table 34. Global Vacuum Quenching Oil Revenue by Company (2021-2026) & (\$ millions)

Table 35. Global Vacuum Quenching Oil Revenue Market Share by Company (2021-2026)

Table 36. Global Vacuum Quenching Oil Sale Price by Company (2021-2026) & (US\$/Ton)

Table 37. Key Manufacturers Vacuum Quenching Oil Producing Area Distribution and Sales Area

Table 38. Players Vacuum Quenching Oil Products Offered

Table 39. Vacuum Quenching Oil Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 40. New Products and Potential Entrants

Table 41. Market M&A Activity & Strategy

Table 42. Global Vacuum Quenching Oil Sales by Geographic Region (2021-2026) & (Kilotons)

Table 43. Global Vacuum Quenching Oil Sales Market Share Geographic Region (2021-2026)

Table 44. Global Vacuum Quenching Oil Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Vacuum Quenching Oil Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Vacuum Quenching Oil Sales by Country/Region (2021-2026) & (Kilotons)

Table 47. Global Vacuum Quenching Oil Sales Market Share by Country/Region (2021-2026)

Table 48. Global Vacuum Quenching Oil Revenue by Country/Region (2021-2026) & (\$

millions)

Table 49. Global Vacuum Quenching Oil Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Vacuum Quenching Oil Sales by Country (2021-2026) & (Kilotons)

Table 51. Americas Vacuum Quenching Oil Sales Market Share by Country (2021-2026)

Table 52. Americas Vacuum Quenching Oil Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Vacuum Quenching Oil Sales by Type (2021-2026) & (Kilotons)

Table 54. Americas Vacuum Quenching Oil Sales by Application (2021-2026) & (Kilotons)

Table 55. APAC Vacuum Quenching Oil Sales by Region (2021-2026) & (Kilotons)

Table 56. APAC Vacuum Quenching Oil Sales Market Share by Region (2021-2026)

Table 57. APAC Vacuum Quenching Oil Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Vacuum Quenching Oil Sales by Type (2021-2026) & (Kilotons)

Table 59. APAC Vacuum Quenching Oil Sales by Application (2021-2026) & (Kilotons)

Table 60. Europe Vacuum Quenching Oil Sales by Country (2021-2026) & (Kilotons)

Table 61. Europe Vacuum Quenching Oil Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Vacuum Quenching Oil Sales by Type (2021-2026) & (Kilotons)

Table 63. Europe Vacuum Quenching Oil Sales by Application (2021-2026) & (Kilotons)

Table 64. Middle East & Africa Vacuum Quenching Oil Sales by Country (2021-2026) & (Kilotons)

Table 65. Middle East & Africa Vacuum Quenching Oil Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Vacuum Quenching Oil Sales by Type (2021-2026) & (Kilotons)

Table 67. Middle East & Africa Vacuum Quenching Oil Sales by Application (2021-2026) & (Kilotons)

Table 68. Key Market Drivers & Growth Opportunities of Vacuum Quenching Oil

Table 69. Key Market Challenges & Risks of Vacuum Quenching Oil

Table 70. Key Industry Trends of Vacuum Quenching Oil

Table 71. Vacuum Quenching Oil Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Vacuum Quenching Oil Distributors List

Table 74. Vacuum Quenching Oil Customer List

Table 75. Global Vacuum Quenching Oil Sales Forecast by Region (2027-2032) & (Kilotons)

Table 76. Global Vacuum Quenching Oil Revenue Forecast by Region (2027-2032) & (\$

millions)

Table 77. Americas Vacuum Quenching Oil Sales Forecast by Country (2027-2032) & (Kilotons)

Table 78. Americas Vacuum Quenching Oil Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Vacuum Quenching Oil Sales Forecast by Region (2027-2032) & (Kilotons)

Table 80. APAC Vacuum Quenching Oil Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Vacuum Quenching Oil Sales Forecast by Country (2027-2032) & (Kilotons)

Table 82. Europe Vacuum Quenching Oil Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Vacuum Quenching Oil Sales Forecast by Country (2027-2032) & (Kilotons)

Table 84. Middle East & Africa Vacuum Quenching Oil Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Vacuum Quenching Oil Sales Forecast by Type (2027-2032) & (Kilotons)

Table 86. Global Vacuum Quenching Oil Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 87. Global Vacuum Quenching Oil Sales Forecast by Application (2027-2032) & (Kilotons)

Table 88. Global Vacuum Quenching Oil Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Houghton Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 90. Houghton Vacuum Quenching Oil Product Portfolios and Specifications

Table 91. Houghton Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 92. Houghton Main Business

Table 93. Houghton Latest Developments

Table 94. FUCHS Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 95. FUCHS Vacuum Quenching Oil Product Portfolios and Specifications

Table 96. FUCHS Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 97. FUCHS Main Business

Table 98. FUCHS Latest Developments

Table 99. BP Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 100. BP Vacuum Quenching Oil Product Portfolios and Specifications

Table 101. BP Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 102. BP Main Business

Table 103. BP Latest Developments

Table 104. Idemitsu Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 105. Idemitsu Vacuum Quenching Oil Product Portfolios and Specifications

Table 106. Idemitsu Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 107. Idemitsu Main Business

Table 108. Idemitsu Latest Developments

Table 109. TotalEnergies Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 110. TotalEnergies Vacuum Quenching Oil Product Portfolios and Specifications

Table 111. TotalEnergies Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 112. TotalEnergies Main Business

Table 113. TotalEnergies Latest Developments

Table 114. WEICON Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 115. WEICON Vacuum Quenching Oil Product Portfolios and Specifications

Table 116. WEICON Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 117. WEICON Main Business

Table 118. WEICON Latest Developments

Table 119. Petrofer Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 120. Petrofer Vacuum Quenching Oil Product Portfolios and Specifications

Table 121. Petrofer Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 122. Petrofer Main Business

Table 123. Petrofer Latest Developments

Table 124. Sinopec Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 125. Sinopec Vacuum Quenching Oil Product Portfolios and Specifications

Table 126. Sinopec Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price

(US\$/Ton) and Gross Margin (2021-2026)

Table 127. Sinopec Main Business

Table 128. Sinopec Latest Developments

Table 129. Jingde Lubricating Oil Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 130. Jingde Lubricating Oil Vacuum Quenching Oil Product Portfolios and Specifications

Table 131. Jingde Lubricating Oil Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 132. Jingde Lubricating Oil Main Business

Table 133. Jingde Lubricating Oil Latest Developments

Table 134. Yantai Thinking Finechem Technology Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 135. Yantai Thinking Finechem Technology Vacuum Quenching Oil Product Portfolios and Specifications

Table 136. Yantai Thinking Finechem Technology Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 137. Yantai Thinking Finechem Technology Main Business

Table 138. Yantai Thinking Finechem Technology Latest Developments

Table 139. Shanghai Huifeng Petrochemical Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 140. Shanghai Huifeng Petrochemical Vacuum Quenching Oil Product Portfolios and Specifications

Table 141. Shanghai Huifeng Petrochemical Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 142. Shanghai Huifeng Petrochemical Main Business

Table 143. Shanghai Huifeng Petrochemical Latest Developments

Table 144. Dongguan Dechen Environmental Protection Material Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 145. Dongguan Dechen Environmental Protection Material Vacuum Quenching Oil Product Portfolios and Specifications

Table 146. Dongguan Dechen Environmental Protection Material Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 147. Dongguan Dechen Environmental Protection Material Main Business

Table 148. Dongguan Dechen Environmental Protection Material Latest Developments

Table 149. Dalian Haiwei Petrochemical Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 150. Dalian Haiwei Petrochemical Vacuum Quenching Oil Product Portfolios and

Specifications

Table 151. Dalian Haiwei Petrochemical Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 152. Dalian Haiwei Petrochemical Main Business

Table 153. Dalian Haiwei Petrochemical Latest Developments

Table 154. Liaoning Sante Petrochemical Basic Information, Vacuum Quenching Oil Manufacturing Base, Sales Area and Its Competitors

Table 155. Liaoning Sante Petrochemical Vacuum Quenching Oil Product Portfolios and Specifications

Table 156. Liaoning Sante Petrochemical Vacuum Quenching Oil Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 157. Liaoning Sante Petrochemical Main Business

Table 158. Liaoning Sante Petrochemical Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Vacuum Quenching Oil
- Figure 2. Vacuum Quenching Oil Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Vacuum Quenching Oil Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global Vacuum Quenching Oil Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Vacuum Quenching Oil Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Vacuum Quenching Oil Sales Market Share by Country/Region (2025)
- Figure 10. Vacuum Quenching Oil Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Mineral Oil-Based
- Figure 12. Product Picture of Synthetic Oil-Based
- Figure 13. Product Picture of Semi-Synthetic Oil-Based
- Figure 14. Product Picture of Others
- Figure 15. Global Vacuum Quenching Oil Sales Market Share by Type in 2026
- Figure 16. Global Vacuum Quenching Oil Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of Immersion Type Quenching Oil
- Figure 18. Product Picture of Spray Type Quenching Oil
- Figure 19. Global Vacuum Quenching Oil Sales Market Share by Method of Use in 2026
- Figure 20. Global Vacuum Quenching Oil Revenue Market Share by Method of Use (2021-2026)
- Figure 21. Product Picture of Fast Cooling Vacuum Quenching Oil
- Figure 22. Product Picture of Medium Cooling Vacuum Quenching Oil
- Figure 23. Product Picture of Slow Cooling Vacuum Oil
- Figure 24. Global Vacuum Quenching Oil Sales Market Share by Cooling Rate in 2026
- Figure 25. Global Vacuum Quenching Oil Revenue Market Share by Cooling Rate (2021-2026)
- Figure 26. Vacuum Quenching Oil Consumed in Automobile Manufacturing
- Figure 27. Global Vacuum Quenching Oil Market: Automobile Manufacturing (2021-2026) & (Kilotons)
- Figure 28. Vacuum Quenching Oil Consumed in Aerospace
- Figure 29. Global Vacuum Quenching Oil Market: Aerospace (2021-2026) & (Kilotons)
- Figure 30. Vacuum Quenching Oil Consumed in Medical Devices

- Figure 31. Global Vacuum Quenching Oil Market: Medical Devices (2021-2026) & (Kilotons)
- Figure 32. Vacuum Quenching Oil Consumed in Mold Manufacturing
- Figure 33. Global Vacuum Quenching Oil Market: Mold Manufacturing (2021-2026) & (Kilotons)
- Figure 34. Vacuum Quenching Oil Consumed in Others
- Figure 35. Global Vacuum Quenching Oil Market: Others (2021-2026) & (Kilotons)
- Figure 36. Global Vacuum Quenching Oil Sale Market Share by Application (2025)
- Figure 37. Global Vacuum Quenching Oil Revenue Market Share by Application in 2026
- Figure 38. Vacuum Quenching Oil Sales by Company in 2026 (Kilotons)
- Figure 39. Global Vacuum Quenching Oil Sales Market Share by Company in 2026
- Figure 40. Vacuum Quenching Oil Revenue by Company in 2026 (\$ millions)
- Figure 41. Global Vacuum Quenching Oil Revenue Market Share by Company in 2026
- Figure 42. Global Vacuum Quenching Oil Sales Market Share by Geographic Region (2021-2026)
- Figure 43. Global Vacuum Quenching Oil Revenue Market Share by Geographic Region in 2026
- Figure 44. Americas Vacuum Quenching Oil Sales 2021-2026 (Kilotons)
- Figure 45. Americas Vacuum Quenching Oil Revenue 2021-2026 (\$ millions)
- Figure 46. APAC Vacuum Quenching Oil Sales 2021-2026 (Kilotons)
- Figure 47. APAC Vacuum Quenching Oil Revenue 2021-2026 (\$ millions)
- Figure 48. Europe Vacuum Quenching Oil Sales 2021-2026 (Kilotons)
- Figure 49. Europe Vacuum Quenching Oil Revenue 2021-2026 (\$ millions)
- Figure 50. Middle East & Africa Vacuum Quenching Oil Sales 2021-2026 (Kilotons)
- Figure 51. Middle East & Africa Vacuum Quenching Oil Revenue 2021-2026 (\$ millions)
- Figure 52. Americas Vacuum Quenching Oil Sales Market Share by Country in 2026
- Figure 53. Americas Vacuum Quenching Oil Revenue Market Share by Country (2021-2026)
- Figure 54. Americas Vacuum Quenching Oil Sales Market Share by Type (2021-2026)
- Figure 55. Americas Vacuum Quenching Oil Sales Market Share by Application (2021-2026)
- Figure 56. United States Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)
- Figure 57. Canada Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)
- Figure 58. Mexico Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)
- Figure 59. Brazil Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)
- Figure 60. APAC Vacuum Quenching Oil Sales Market Share by Region in 2026
- Figure 61. APAC Vacuum Quenching Oil Revenue Market Share by Region (2021-2026)

Figure 62. APAC Vacuum Quenching Oil Sales Market Share by Type (2021-2026)

Figure 63. APAC Vacuum Quenching Oil Sales Market Share by Application (2021-2026)

Figure 64. China Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 69. Australia Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Vacuum Quenching Oil Sales Market Share by Country in 2026

Figure 72. Europe Vacuum Quenching Oil Revenue Market Share by Country (2021-2026)

Figure 73. Europe Vacuum Quenching Oil Sales Market Share by Type (2021-2026)

Figure 74. Europe Vacuum Quenching Oil Sales Market Share by Application (2021-2026)

Figure 75. Germany Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Vacuum Quenching Oil Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Vacuum Quenching Oil Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Vacuum Quenching Oil Sales Market Share by Application (2021-2026)

Figure 83. Egypt Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Vacuum Quenching Oil Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Vacuum Quenching Oil in 2026

Figure 89. Manufacturing Process Analysis of Vacuum Quenching Oil

Figure 90. Industry Chain Structure of Vacuum Quenching Oil

Figure 91. Channels of Distribution

Figure 92. Global Vacuum Quenching Oil Sales Market Forecast by Region
(2027-2032)

Figure 93. Global Vacuum Quenching Oil Revenue Market Share Forecast by Region
(2027-2032)

Figure 94. Global Vacuum Quenching Oil Sales Market Share Forecast by Type
(2027-2032)

Figure 95. Global Vacuum Quenching Oil Revenue Market Share Forecast by Type
(2027-2032)

Figure 96. Global Vacuum Quenching Oil Sales Market Share Forecast by Application
(2027-2032)

Figure 97. Global Vacuum Quenching Oil Revenue Market Share Forecast by
Application (2027-2032)

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