

Global Isothermal Graded Quenching Oil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Isothermal Graded Quenching Oil market size is expected to reach \$ 82.12 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

Isothermal Graded Quenching Oil is a high-performance cooling medium specifically designed for metal heat treatment processes. By maintaining a constant temperature at elevated levels (typically 80°C to 200°C) during the cooling phase, it helps minimize internal stresses in complex-shaped or thin-walled metal parts, thereby effectively preventing quench cracking and deformation.

Upstream raw materials primarily include highly refined mineral base oils, synthetic base oils, antioxidants, metal deactivators, detergents and dispersants, cooling rate modifiers, rust inhibitors, and antifoaming agents. Because the product operates at consistently high temperatures, it demands superior performance regarding base oil oxidation stability, flash point, evaporative loss, sludge control, and cooling curve stability compared to standard quenching oils.

In 2025, global sales volume is approximately 13,000 metric tons, with an average market price of around US\$4,700 per metric ton; major manufacturers in the industry report gross profit margins of approximately 22%-35%.

This report studies the global Isothermal Graded Quenching Oil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Isothermal Graded Quenching Oil and provides market size (US\$ million) and Year-over-Year

(YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Isothermal Graded Quenching Oil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Isothermal Graded Quenching Oil total production and demand, 2021-2032, (Tons)

Global Isothermal Graded Quenching Oil total production value, 2021-2032, (USD Million)

Global Isothermal Graded Quenching Oil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Isothermal Graded Quenching Oil consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Isothermal Graded Quenching Oil domestic production, consumption, key domestic manufacturers and share

Global Isothermal Graded Quenching Oil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Isothermal Graded Quenching Oil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Isothermal Graded Quenching Oil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Isothermal Graded Quenching Oil market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Quaker Houghton, FUCHS, Idemitsu Kosan, TotalEnergies, PETROFER, CONDAT, Nanjing Kerun Lubricants, Jiangsu Feiya Chemical Corporation, Chengdu Maxtop New Energy Lubricant Materials, Nantong Derun Industrial Medium Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Isothermal Graded Quenching Oil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Isothermal Graded Quenching Oil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Isothermal Graded Quenching Oil Market, Segmentation by Type:

Standard Type

High-Speed ??Type

Global Isothermal Graded Quenching Oil Market, Segmentation by Base Oil System:

Mineral Oil-based

Synthetic Oil-based

Global Isothermal Graded Quenching Oil Market, Segmentation by Application:

Machinery Manufacturing

Automotive Industry

Aerospace

Bearing Manufacturing

Tool and Die Making

Others

Companies Profiled:

Quaker Houghton

FUCHS

Idemitsu Kosan

TotalEnergies

PETROFER

CONDAT

Nanjing Kerun Lubricants

Jiangsu Feiya Chemical Corporation

Chengdu Maxtop New Energy Lubricant Materials

Nantong Derun Industrial Medium Technology

Key Questions Answered:

1. How big is the global Isothermal Graded Quenching Oil market?
2. What is the demand of the global Isothermal Graded Quenching Oil market?

3. What is the year over year growth of the global Isothermal Graded Quenching Oil market?
4. What is the production and production value of the global Isothermal Graded Quenching Oil market?
5. Who are the key producers in the global Isothermal Graded Quenching Oil market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Isothermal Graded Quenching Oil Introduction
- 1.2 World Isothermal Graded Quenching Oil Supply & Forecast
 - 1.2.1 World Isothermal Graded Quenching Oil Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Isothermal Graded Quenching Oil Production (2021-2032)
 - 1.2.3 World Isothermal Graded Quenching Oil Pricing Trends (2021-2032)
- 1.3 World Isothermal Graded Quenching Oil Production by Region (Based on Production Site)
 - 1.3.1 World Isothermal Graded Quenching Oil Production Value by Region (2021-2032)
 - 1.3.2 World Isothermal Graded Quenching Oil Production by Region (2021-2032)
 - 1.3.3 World Isothermal Graded Quenching Oil Average Price by Region (2021-2032)
 - 1.3.4 North America Isothermal Graded Quenching Oil Production (2021-2032)
 - 1.3.5 Europe Isothermal Graded Quenching Oil Production (2021-2032)
 - 1.3.6 China Isothermal Graded Quenching Oil Production (2021-2032)
 - 1.3.7 Japan Isothermal Graded Quenching Oil Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Isothermal Graded Quenching Oil Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Isothermal Graded Quenching Oil Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Isothermal Graded Quenching Oil Demand (2021-2032)
- 2.2 World Isothermal Graded Quenching Oil Consumption by Region
 - 2.2.1 World Isothermal Graded Quenching Oil Consumption by Region (2021-2026)
 - 2.2.2 World Isothermal Graded Quenching Oil Consumption Forecast by Region (2027-2032)
- 2.3 United States Isothermal Graded Quenching Oil Consumption (2021-2032)
- 2.4 China Isothermal Graded Quenching Oil Consumption (2021-2032)
- 2.5 Europe Isothermal Graded Quenching Oil Consumption (2021-2032)
- 2.6 Japan Isothermal Graded Quenching Oil Consumption (2021-2032)
- 2.7 South Korea Isothermal Graded Quenching Oil Consumption (2021-2032)
- 2.8 ASEAN Isothermal Graded Quenching Oil Consumption (2021-2032)
- 2.9 India Isothermal Graded Quenching Oil Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Isothermal Graded Quenching Oil Production Value by Manufacturer (2021-2026)
- 3.2 World Isothermal Graded Quenching Oil Production by Manufacturer (2021-2026)
- 3.3 World Isothermal Graded Quenching Oil Average Price by Manufacturer (2021-2026)
- 3.4 Isothermal Graded Quenching Oil Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Isothermal Graded Quenching Oil Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Isothermal Graded Quenching Oil in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Isothermal Graded Quenching Oil in 2025
- 3.6 Isothermal Graded Quenching Oil Market: Overall Company Footprint Analysis
 - 3.6.1 Isothermal Graded Quenching Oil Market: Region Footprint
 - 3.6.2 Isothermal Graded Quenching Oil Market: Company Product Type Footprint
 - 3.6.3 Isothermal Graded Quenching Oil Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Isothermal Graded Quenching Oil Production Value Comparison
 - 4.1.1 United States VS China: Isothermal Graded Quenching Oil Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Isothermal Graded Quenching Oil Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Isothermal Graded Quenching Oil Production Comparison
 - 4.2.1 United States VS China: Isothermal Graded Quenching Oil Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Isothermal Graded Quenching Oil Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Isothermal Graded Quenching Oil Consumption Comparison

4.3.1 United States VS China: Isothermal Graded Quenching Oil Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Isothermal Graded Quenching Oil Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Isothermal Graded Quenching Oil Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Isothermal Graded Quenching Oil Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Isothermal Graded Quenching Oil Production Value (2021-2026)

4.4.3 United States Based Manufacturers Isothermal Graded Quenching Oil Production (2021-2026)

4.5 China Based Isothermal Graded Quenching Oil Manufacturers and Market Share

4.5.1 China Based Isothermal Graded Quenching Oil Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Isothermal Graded Quenching Oil Production Value (2021-2026)

4.5.3 China Based Manufacturers Isothermal Graded Quenching Oil Production (2021-2026)

4.6 Rest of World Based Isothermal Graded Quenching Oil Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Isothermal Graded Quenching Oil Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Isothermal Graded Quenching Oil Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Standard Type

5.2.2 High-Speed ??Type

5.3 Market Segment by Type

5.3.1 World Isothermal Graded Quenching Oil Production by Type (2021-2032)

5.3.2 World Isothermal Graded Quenching Oil Production Value by Type (2021-2032)

5.3.3 World Isothermal Graded Quenching Oil Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY BASE OIL SYSTEM

6.1 World Isothermal Graded Quenching Oil Market Size Overview by Base Oil System: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Base Oil System

6.2.1 Mineral Oil-based

6.2.2 Synthetic Oil-based

6.3 Market Segment by Base Oil System

6.3.1 World Isothermal Graded Quenching Oil Production by Base Oil System (2021-2032)

6.3.2 World Isothermal Graded Quenching Oil Production Value by Base Oil System (2021-2032)

6.3.3 World Isothermal Graded Quenching Oil Average Price by Base Oil System (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Isothermal Graded Quenching Oil Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Machinery Manufacturing

7.2.2 Automotive Industry

7.2.3 Aerospace

7.2.4 Bearing Manufacturing

7.2.5 Tool and Die Making

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World Isothermal Graded Quenching Oil Production by Application (2021-2032)

7.3.2 World Isothermal Graded Quenching Oil Production Value by Application (2021-2032)

7.3.3 World Isothermal Graded Quenching Oil Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Quaker Houghton

8.1.1 Quaker Houghton Details

8.1.2 Quaker Houghton Major Business

- 8.1.3 Quaker Houghton Isothermal Graded Quenching Oil Product and Services
- 8.1.4 Quaker Houghton Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.1.5 Quaker Houghton Recent Developments/Updates
- 8.1.6 Quaker Houghton Competitive Strengths & Weaknesses
- 8.2 FUCHS
 - 8.2.1 FUCHS Details
 - 8.2.2 FUCHS Major Business
 - 8.2.3 FUCHS Isothermal Graded Quenching Oil Product and Services
 - 8.2.4 FUCHS Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.2.5 FUCHS Recent Developments/Updates
 - 8.2.6 FUCHS Competitive Strengths & Weaknesses
- 8.3 Idemitsu Kosan
 - 8.3.1 Idemitsu Kosan Details
 - 8.3.2 Idemitsu Kosan Major Business
 - 8.3.3 Idemitsu Kosan Isothermal Graded Quenching Oil Product and Services
 - 8.3.4 Idemitsu Kosan Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.3.5 Idemitsu Kosan Recent Developments/Updates
 - 8.3.6 Idemitsu Kosan Competitive Strengths & Weaknesses
- 8.4 TotalEnergies
 - 8.4.1 TotalEnergies Details
 - 8.4.2 TotalEnergies Major Business
 - 8.4.3 TotalEnergies Isothermal Graded Quenching Oil Product and Services
 - 8.4.4 TotalEnergies Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 TotalEnergies Recent Developments/Updates
 - 8.4.6 TotalEnergies Competitive Strengths & Weaknesses
- 8.5 PETROFER
 - 8.5.1 PETROFER Details
 - 8.5.2 PETROFER Major Business
 - 8.5.3 PETROFER Isothermal Graded Quenching Oil Product and Services
 - 8.5.4 PETROFER Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 PETROFER Recent Developments/Updates
 - 8.5.6 PETROFER Competitive Strengths & Weaknesses
- 8.6 CONDAT
 - 8.6.1 CONDAT Details

- 8.6.2 CONDAT Major Business
- 8.6.3 CONDAT Isothermal Graded Quenching Oil Product and Services
- 8.6.4 CONDAT Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.6.5 CONDAT Recent Developments/Updates
- 8.6.6 CONDAT Competitive Strengths & Weaknesses
- 8.7 Nanjing Kerun Lubricants
 - 8.7.1 Nanjing Kerun Lubricants Details
 - 8.7.2 Nanjing Kerun Lubricants Major Business
 - 8.7.3 Nanjing Kerun Lubricants Isothermal Graded Quenching Oil Product and Services
 - 8.7.4 Nanjing Kerun Lubricants Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Nanjing Kerun Lubricants Recent Developments/Updates
 - 8.7.6 Nanjing Kerun Lubricants Competitive Strengths & Weaknesses
- 8.8 Jiangsu Feiya Chemical Corporation
 - 8.8.1 Jiangsu Feiya Chemical Corporation Details
 - 8.8.2 Jiangsu Feiya Chemical Corporation Major Business
 - 8.8.3 Jiangsu Feiya Chemical Corporation Isothermal Graded Quenching Oil Product and Services
 - 8.8.4 Jiangsu Feiya Chemical Corporation Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Jiangsu Feiya Chemical Corporation Recent Developments/Updates
 - 8.8.6 Jiangsu Feiya Chemical Corporation Competitive Strengths & Weaknesses
- 8.9 Chengdu Maxtop New Energy Lubricant Materials
 - 8.9.1 Chengdu Maxtop New Energy Lubricant Materials Details
 - 8.9.2 Chengdu Maxtop New Energy Lubricant Materials Major Business
 - 8.9.3 Chengdu Maxtop New Energy Lubricant Materials Isothermal Graded Quenching Oil Product and Services
 - 8.9.4 Chengdu Maxtop New Energy Lubricant Materials Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Chengdu Maxtop New Energy Lubricant Materials Recent Developments/Updates
 - 8.9.6 Chengdu Maxtop New Energy Lubricant Materials Competitive Strengths & Weaknesses
- 8.10 Nantong Derun Industrial Medium Technology
 - 8.10.1 Nantong Derun Industrial Medium Technology Details
 - 8.10.2 Nantong Derun Industrial Medium Technology Major Business
 - 8.10.3 Nantong Derun Industrial Medium Technology Isothermal Graded Quenching

Oil Product and Services

8.10.4 Nantong Derun Industrial Medium Technology Isothermal Graded Quenching Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 Nantong Derun Industrial Medium Technology Recent Developments/Updates

8.10.6 Nantong Derun Industrial Medium Technology Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Isothermal Graded Quenching Oil Industry Chain

9.2 Isothermal Graded Quenching Oil Upstream Analysis

9.2.1 Isothermal Graded Quenching Oil Core Raw Materials

9.2.2 Main Manufacturers of Isothermal Graded Quenching Oil Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Isothermal Graded Quenching Oil Production Mode

9.6 Isothermal Graded Quenching Oil Procurement Model

9.7 Isothermal Graded Quenching Oil Industry Sales Model and Sales Channels

9.7.1 Isothermal Graded Quenching Oil Sales Model

9.7.2 Isothermal Graded Quenching Oil Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Isothermal Graded Quenching Oil Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Isothermal Graded Quenching Oil Production Value by Region (2021-2026) & (USD Million)

Table 3. World Isothermal Graded Quenching Oil Production Value by Region (2027-2032) & (USD Million)

Table 4. World Isothermal Graded Quenching Oil Production Value Market Share by Region (2021-2026)

Table 5. World Isothermal Graded Quenching Oil Production Value Market Share by Region (2027-2032)

Table 6. World Isothermal Graded Quenching Oil Production by Region (2021-2026) & (Tons)

Table 7. World Isothermal Graded Quenching Oil Production by Region (2027-2032) & (Tons)

Table 8. World Isothermal Graded Quenching Oil Production Market Share by Region (2021-2026)

Table 9. World Isothermal Graded Quenching Oil Production Market Share by Region (2027-2032)

Table 10. World Isothermal Graded Quenching Oil Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Isothermal Graded Quenching Oil Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Isothermal Graded Quenching Oil Major Market Trends

Table 13. World Isothermal Graded Quenching Oil Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Isothermal Graded Quenching Oil Consumption by Region (2021-2026) & (Tons)

Table 15. World Isothermal Graded Quenching Oil Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Isothermal Graded Quenching Oil Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Isothermal Graded Quenching Oil Producers in 2025

Table 18. World Isothermal Graded Quenching Oil Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Isothermal Graded Quenching Oil Producers in 2025

Table 20. World Isothermal Graded Quenching Oil Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Isothermal Graded Quenching Oil Company Evaluation Quadrant

Table 22. World Isothermal Graded Quenching Oil Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Isothermal Graded Quenching Oil Production Site of Key Manufacturer

Table 24. Isothermal Graded Quenching Oil Market: Company Product Type Footprint

Table 25. Isothermal Graded Quenching Oil Market: Company Product Application Footprint

Table 26. Isothermal Graded Quenching Oil Competitive Factors

Table 27. Isothermal Graded Quenching Oil New Entrant and Capacity Expansion Plans

Table 28. Isothermal Graded Quenching Oil Mergers & Acquisitions Activity

Table 29. United States VS China Isothermal Graded Quenching Oil Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Isothermal Graded Quenching Oil Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Isothermal Graded Quenching Oil Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Isothermal Graded Quenching Oil Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Isothermal Graded Quenching Oil Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Isothermal Graded Quenching Oil Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Isothermal Graded Quenching Oil Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Isothermal Graded Quenching Oil Production Market Share (2021-2026)

Table 37. China Based Isothermal Graded Quenching Oil Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Isothermal Graded Quenching Oil Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Isothermal Graded Quenching Oil Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Isothermal Graded Quenching Oil Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Isothermal Graded Quenching Oil Production Market Share (2021-2026)

Table 42. Rest of World Based Isothermal Graded Quenching Oil Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production Market Share (2021-2026)

Table 47. World Isothermal Graded Quenching Oil Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Isothermal Graded Quenching Oil Production by Type (2021-2026) & (Tons)

Table 49. World Isothermal Graded Quenching Oil Production by Type (2027-2032) & (Tons)

Table 50. World Isothermal Graded Quenching Oil Production Value by Type (2021-2026) & (USD Million)

Table 51. World Isothermal Graded Quenching Oil Production Value by Type (2027-2032) & (USD Million)

Table 52. World Isothermal Graded Quenching Oil Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Isothermal Graded Quenching Oil Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Isothermal Graded Quenching Oil Production Value by Base Oil System, (USD Million), 2021 & 2025 & 2032

Table 55. World Isothermal Graded Quenching Oil Production by Base Oil System (2021-2026) & (Tons)

Table 56. World Isothermal Graded Quenching Oil Production by Base Oil System (2027-2032) & (Tons)

Table 57. World Isothermal Graded Quenching Oil Production Value by Base Oil System (2021-2026) & (USD Million)

Table 58. World Isothermal Graded Quenching Oil Production Value by Base Oil System (2027-2032) & (USD Million)

Table 59. World Isothermal Graded Quenching Oil Average Price by Base Oil System (2021-2026) & (US\$/Ton)

Table 60. World Isothermal Graded Quenching Oil Average Price by Base Oil System

(2027-2032) & (US\$/Ton)

Table 61. World Isothermal Graded Quenching Oil Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Isothermal Graded Quenching Oil Production by Application (2021-2026) & (Tons)

Table 63. World Isothermal Graded Quenching Oil Production by Application (2027-2032) & (Tons)

Table 64. World Isothermal Graded Quenching Oil Production Value by Application (2021-2026) & (USD Million)

Table 65. World Isothermal Graded Quenching Oil Production Value by Application (2027-2032) & (USD Million)

Table 66. World Isothermal Graded Quenching Oil Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World Isothermal Graded Quenching Oil Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. Quaker Houghton Basic Information, Manufacturing Base and Competitors

Table 69. Quaker Houghton Major Business

Table 70. Quaker Houghton Isothermal Graded Quenching Oil Product and Services

Table 71. Quaker Houghton Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Quaker Houghton Recent Developments/Updates

Table 73. Quaker Houghton Competitive Strengths & Weaknesses

Table 74. FUCHS Basic Information, Manufacturing Base and Competitors

Table 75. FUCHS Major Business

Table 76. FUCHS Isothermal Graded Quenching Oil Product and Services

Table 77. FUCHS Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. FUCHS Recent Developments/Updates

Table 79. FUCHS Competitive Strengths & Weaknesses

Table 80. Idemitsu Kosan Basic Information, Manufacturing Base and Competitors

Table 81. Idemitsu Kosan Major Business

Table 82. Idemitsu Kosan Isothermal Graded Quenching Oil Product and Services

Table 83. Idemitsu Kosan Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Idemitsu Kosan Recent Developments/Updates

Table 85. Idemitsu Kosan Competitive Strengths & Weaknesses

Table 86. TotalEnergies Basic Information, Manufacturing Base and Competitors

Table 87. TotalEnergies Major Business

Table 88. TotalEnergies Isothermal Graded Quenching Oil Product and Services

Table 89. TotalEnergies Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. TotalEnergies Recent Developments/Updates

Table 91. TotalEnergies Competitive Strengths & Weaknesses

Table 92. PETROFER Basic Information, Manufacturing Base and Competitors

Table 93. PETROFER Major Business

Table 94. PETROFER Isothermal Graded Quenching Oil Product and Services

Table 95. PETROFER Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. PETROFER Recent Developments/Updates

Table 97. PETROFER Competitive Strengths & Weaknesses

Table 98. CONDAT Basic Information, Manufacturing Base and Competitors

Table 99. CONDAT Major Business

Table 100. CONDAT Isothermal Graded Quenching Oil Product and Services

Table 101. CONDAT Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. CONDAT Recent Developments/Updates

Table 103. CONDAT Competitive Strengths & Weaknesses

Table 104. Nanjing Kerun Lubricants Basic Information, Manufacturing Base and Competitors

Table 105. Nanjing Kerun Lubricants Major Business

Table 106. Nanjing Kerun Lubricants Isothermal Graded Quenching Oil Product and Services

Table 107. Nanjing Kerun Lubricants Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Nanjing Kerun Lubricants Recent Developments/Updates

Table 109. Nanjing Kerun Lubricants Competitive Strengths & Weaknesses

Table 110. Jiangsu Feiya Chemical Corporation Basic Information, Manufacturing Base and Competitors

Table 111. Jiangsu Feiya Chemical Corporation Major Business

Table 112. Jiangsu Feiya Chemical Corporation Isothermal Graded Quenching Oil Product and Services

Table 113. Jiangsu Feiya Chemical Corporation Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Jiangsu Feiya Chemical Corporation Recent Developments/Updates

Table 115. Jiangsu Feiya Chemical Corporation Competitive Strengths & Weaknesses

Table 116. Chengdu Maxtop New Energy Lubricant Materials Basic Information, Manufacturing Base and Competitors

Table 117. Chengdu Maxtop New Energy Lubricant Materials Major Business

Table 118. Chengdu Maxtop New Energy Lubricant Materials Isothermal Graded Quenching Oil Product and Services

Table 119. Chengdu Maxtop New Energy Lubricant Materials Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Chengdu Maxtop New Energy Lubricant Materials Recent Developments/Updates

Table 121. Chengdu Maxtop New Energy Lubricant Materials Competitive Strengths & Weaknesses

Table 122. Nantong Derun Industrial Medium Technology Basic Information, Manufacturing Base and Competitors

Table 123. Nantong Derun Industrial Medium Technology Major Business

Table 124. Nantong Derun Industrial Medium Technology Isothermal Graded Quenching Oil Product and Services

Table 125. Nantong Derun Industrial Medium Technology Isothermal Graded Quenching Oil Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Nantong Derun Industrial Medium Technology Recent Developments/Updates

Table 127. Nantong Derun Industrial Medium Technology Competitive Strengths & Weaknesses

Table 128. Global Key Players of Isothermal Graded Quenching Oil Upstream (Raw Materials)

Table 129. Global Isothermal Graded Quenching Oil Typical Customers

Table 130. Isothermal Graded Quenching Oil Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Isothermal Graded Quenching Oil Picture

Figure 2. World Isothermal Graded Quenching Oil Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Isothermal Graded Quenching Oil Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Isothermal Graded Quenching Oil Production (2021-2032) & (Tons)

Figure 5. World Isothermal Graded Quenching Oil Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Isothermal Graded Quenching Oil Production Value Market Share by Region (2021-2032)

Figure 7. World Isothermal Graded Quenching Oil Production Market Share by Region (2021-2032)

Figure 8. North America Isothermal Graded Quenching Oil Production (2021-2032) & (Tons)

Figure 9. Europe Isothermal Graded Quenching Oil Production (2021-2032) & (Tons)

Figure 10. China Isothermal Graded Quenching Oil Production (2021-2032) & (Tons)

Figure 11. Japan Isothermal Graded Quenching Oil Production (2021-2032) & (Tons)

Figure 12. Isothermal Graded Quenching Oil Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 15. World Isothermal Graded Quenching Oil Consumption Market Share by Region (2021-2032)

Figure 16. United States Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 17. China Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 18. Europe Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 19. Japan Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 20. South Korea Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 22. India Isothermal Graded Quenching Oil Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Isothermal Graded Quenching Oil by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Isothermal Graded Quenching Oil Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Isothermal Graded Quenching Oil Markets in 2025

Figure 26. United States VS China: Isothermal Graded Quenching Oil Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Isothermal Graded Quenching Oil Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Isothermal Graded Quenching Oil Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Isothermal Graded Quenching Oil Production Market Share 2025

Figure 30. China Based Manufacturers Isothermal Graded Quenching Oil Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Isothermal Graded Quenching Oil Production Market Share 2025

Figure 32. World Isothermal Graded Quenching Oil Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Isothermal Graded Quenching Oil Production Value Market Share by Type in 2025

Figure 34. Standard Type

Figure 35. High-Speed ??Type

Figure 36. World Isothermal Graded Quenching Oil Production Market Share by Type (2021-2032)

Figure 37. World Isothermal Graded Quenching Oil Production Value Market Share by Type (2021-2032)

Figure 38. World Isothermal Graded Quenching Oil Average Price by Type (2021-2032) & (US\$/Ton)

Figure 39. World Isothermal Graded Quenching Oil Production Value by Base Oil System, (USD Million), 2021 & 2025 & 2032

Figure 40. World Isothermal Graded Quenching Oil Production Value Market Share by Base Oil System in 2025

Figure 41. Mineral Oil-based

Figure 42. Synthetic Oil-based

Figure 43. World Isothermal Graded Quenching Oil Production Market Share by Base Oil System (2021-2032)

Figure 44. World Isothermal Graded Quenching Oil Production Value Market Share by Base Oil System (2021-2032)

Figure 45. World Isothermal Graded Quenching Oil Average Price by Base Oil System

(2021-2032) & (US\$/Ton)

Figure 46. World Isothermal Graded Quenching Oil Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 47. World Isothermal Graded Quenching Oil Production Value Market Share by Application in 2025

Figure 48. Machinery Manufacturing

Figure 49. Automotive Industry

Figure 50. Aerospace

Figure 51. Bearing Manufacturing

Figure 52. Tool and Die Making

Figure 53. Others

Figure 54. World Isothermal Graded Quenching Oil Production Market Share by Application (2021-2032)

Figure 55. World Isothermal Graded Quenching Oil Production Value Market Share by Application (2021-2032)

Figure 56. World Isothermal Graded Quenching Oil Average Price by Application (2021-2032) & (US\$/Ton)

Figure 57. Isothermal Graded Quenching Oil Industry Chain

Figure 58. Isothermal Graded Quenching Oil Procurement Model

Figure 59. Isothermal Graded Quenching Oil Sales Model

Figure 60. Isothermal Graded Quenching Oil Sales Channels, Direct Sales, and Distribution

Figure 61. Methodology

Figure 62. Research Process and Data Source

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