

Global Tempering Oil Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tempering Oil market size is expected to reach \$ 818 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032).

In 2025, the global production of tempering oil is approximately 225,000 tons, with an average selling price of about US\$2,560 per ton. The production capacity in 2025 is 262,000 tons, with an average gross profit margin of approximately 20-30%. Tempering oil is an industrial oil used in metal heat treatment processes. It is made from highly refined mineral oil as the base oil, with the addition of high-temperature antioxidants, dispersants, and other additives. Its characteristics include a high flash point, low volatility, excellent antioxidant and anti-gumming properties, and thermal stability, effectively maintaining the brightness of metal surfaces and extending their service life. The upstream supply chain of tempering oil mainly includes base oil and various additives. Base oil is the core component; additives include antioxidants, dispersants, cooling agents, and rust inhibitors. Its downstream applications are directly in industries with strict heat treatment requirements for metal materials, mainly including: automotive manufacturing, bearing and gear manufacturing, tool and mold production, aerospace precision component processing, and heavy machinery manufacturing. Through the tempering process, it improves the strength, toughness, and stability of metal workpieces, making it an indispensable process medium in high-end equipment manufacturing.

The tempering oil market has shown a steady growth trend in recent years, primarily driven by accelerated industrialization and increasing demand for high-performance metal materials. With the continuous development of the manufacturing and machinery industries, particularly in the automotive, aerospace, and mold manufacturing sectors, tempering oil, as an indispensable auxiliary material in heat treatment processes, is experiencing expanding market demand. Mineral oil-based tempering oils still dominate the market due to their cost-effectiveness, while synthetic and vegetable oil-based

tempering oils are gradually gaining favor due to environmental regulations and the trend towards green manufacturing. Synthetic tempering oils, with their excellent thermal stability and low volatility, perform exceptionally well in high-temperature tempering processes and are gradually capturing the high-end market. Furthermore, low-smoke and multi-functional tempering oils are gaining attention, especially in regions with strict environmental regulations, due to their advantages in reducing harmful gas emissions during production and improving the working environment.

Geographically, North America, Europe, and Asia are the main consumption markets, with Asia experiencing the fastest growth in demand for tempering oil due to the rise of its manufacturing sector. In the future, with increasing environmental awareness and the development of Industry 4.0 and automated manufacturing technologies, the tempering oil market is expected to show a more diversified and environmentally friendly trend.

The market is projected to continue to be driven by the demand for high-performance materials, green environmental policies, and technological innovation.

This report studies the global Tempering Oil production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tempering 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 Tempering Oil that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tempering Oil total production and demand, 2021-2032, (Kilotons)

Global Tempering Oil total production value, 2021-2032, (USD Million)

Global Tempering Oil production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Tempering Oil consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Tempering Oil domestic production, consumption, key domestic manufacturers and share

Global Tempering Oil production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Tempering Oil production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Tempering Oil production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Tempering 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 Nippon Grease, Duratherm, Idemitsu, Houghton,

Yantai Thinking Finechem Technology, Nantong Runze Industrial Oil, Liaoning Technom Technology, KUO HORNG LUBE, Chongqing Hsenic, 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 Tempering Oil market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 Tempering Oil Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tempering Oil Market, Segmentation by Type:

Low-Temperature Tempering Oil(150-250°C)

Medium-Temperature Tempering Oil(250-400°C)

High-Temperature Tempering Oil(400-600°C)

Global Tempering Oil Market, Segmentation by Base Oil:

Mineral Oil-based

Synthetic Oil-based

Vegetable Oil-based

Global Tempering Oil Market, Segmentation by Application Environment:

Atmospheric Tempering Oil

Vacuum Tempering Oil

Global Tempering Oil Market, Segmentation by Application:

Automobile Manufacturing

Aerospace

Mechanical Manufacturing

Others

Companies Profiled:

Nippon Grease

Duratherm

Idemitsu

Houghton

Yantai Thinking Finechem Technology

Nantong Runze Industrial Oil

Liaoning Technom Technology

KUO HORNG LUBE

Chongqing Hsenic

Key Questions Answered:

1. How big is the global Tempering Oil market?
2. What is the demand of the global Tempering Oil market?
3. What is the year over year growth of the global Tempering Oil market?
4. What is the production and production value of the global Tempering Oil market?
5. Who are the key producers in the global Tempering Oil market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Tempering Oil Production Value by Manufacturer (2021-2026)

- 3.2 World Tempering Oil Production by Manufacturer (2021-2026)
- 3.3 World Tempering Oil Average Price by Manufacturer (2021-2026)
- 3.4 Tempering Oil Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Tempering Oil Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Tempering Oil in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Tempering Oil in 2025
- 3.6 Tempering Oil Market: Overall Company Footprint Analysis
 - 3.6.1 Tempering Oil Market: Region Footprint
 - 3.6.2 Tempering Oil Market: Company Product Type Footprint
 - 3.6.3 Tempering 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: Tempering Oil Production Value Comparison
 - 4.1.1 United States VS China: Tempering Oil Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Tempering Oil Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Tempering Oil Production Comparison
 - 4.2.1 United States VS China: Tempering Oil Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Tempering Oil Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Tempering Oil Consumption Comparison
 - 4.3.1 United States VS China: Tempering Oil Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Tempering Oil Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Tempering Oil Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Tempering Oil Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Tempering Oil Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Tempering Oil Production (2021-2026)

4.5 China Based Tempering Oil Manufacturers and Market Share

4.5.1 China Based Tempering Oil Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Tempering Oil Production Value (2021-2026)

4.5.3 China Based Manufacturers Tempering Oil Production (2021-2026)

4.6 Rest of World Based Tempering Oil Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Tempering Oil Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Tempering Oil Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Tempering Oil Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Low-Temperature Tempering Oil(150-250°C)

5.2.2 Medium-Temperature Tempering Oil(250-400°C)

5.2.3 High-Temperature Tempering Oil(400-600°C)

5.3 Market Segment by Type

5.3.1 World Tempering Oil Production by Type (2021-2032)

5.3.2 World Tempering Oil Production Value by Type (2021-2032)

5.3.3 World Tempering Oil Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY BASE OIL

6.1 World Tempering Oil Market Size Overview by Base Oil: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Base Oil

6.2.1 Mineral Oil-based

6.2.2 Synthetic Oil-based

6.2.3 Vegetable Oil-based

6.3 Market Segment by Base Oil

6.3.1 World Tempering Oil Production by Base Oil (2021-2032)

6.3.2 World Tempering Oil Production Value by Base Oil (2021-2032)

6.3.3 World Tempering Oil Average Price by Base Oil (2021-2032)

7 MARKET ANALYSIS BY APPLICATION ENVIRONMENT

7.1 World Tempering Oil Market Size Overview by Application Environment: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application Environment

7.2.1 Atmospheric Tempering Oil

7.2.2 Vacuum Tempering Oil

7.3 Market Segment by Application Environment

7.3.1 World Tempering Oil Production by Application Environment (2021-2032)

7.3.2 World Tempering Oil Production Value by Application Environment (2021-2032)

7.3.3 World Tempering Oil Average Price by Application Environment (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Tempering Oil Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automobile Manufacturing

8.2.2 Aerospace

8.2.3 Mechanical Manufacturing

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Tempering Oil Production by Application (2021-2032)

8.3.2 World Tempering Oil Production Value by Application (2021-2032)

8.3.3 World Tempering Oil Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nippon Grease

9.1.1 Nippon Grease Details

9.1.2 Nippon Grease Major Business

9.1.3 Nippon Grease Tempering Oil Product and Services

9.1.4 Nippon Grease Tempering Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nippon Grease Recent Developments/Updates

9.1.6 Nippon Grease Competitive Strengths & Weaknesses

9.2 Duratherm

9.2.1 Duratherm Details

9.2.2 Duratherm Major Business

9.2.3 Duratherm Tempering Oil Product and Services

9.2.4 Duratherm Tempering Oil Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.2.5 Duratherm Recent Developments/Updates

9.2.6 Duratherm Competitive Strengths & Weaknesses

9.3 Idemitsu

9.3.1 Idemitsu Details

9.3.2 Idemitsu Major Business

9.3.3 Idemitsu Tempering Oil Product and Services

9.3.4 Idemitsu Tempering Oil Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.3.5 Idemitsu Recent Developments/Updates

9.3.6 Idemitsu Competitive Strengths & Weaknesses

9.4 Houghton

9.4.1 Houghton Details

9.4.2 Houghton Major Business

9.4.3 Houghton Tempering Oil Product and Services

9.4.4 Houghton Tempering Oil Production, Price, Value, Gross Margin and Market

Share (2021-2026)

9.4.5 Houghton Recent Developments/Updates

9.4.6 Houghton Competitive Strengths & Weaknesses

9.5 Yantai Thinking Finechem Technology

9.5.1 Yantai Thinking Finechem Technology Details

9.5.2 Yantai Thinking Finechem Technology Major Business

9.5.3 Yantai Thinking Finechem Technology Tempering Oil Product and Services

9.5.4 Yantai Thinking Finechem Technology Tempering Oil Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.5.5 Yantai Thinking Finechem Technology Recent Developments/Updates

9.5.6 Yantai Thinking Finechem Technology Competitive Strengths & Weaknesses

9.6 Nantong Runze Industrial Oil

9.6.1 Nantong Runze Industrial Oil Details

9.6.2 Nantong Runze Industrial Oil Major Business

9.6.3 Nantong Runze Industrial Oil Tempering Oil Product and Services

9.6.4 Nantong Runze Industrial Oil Tempering Oil Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.6.5 Nantong Runze Industrial Oil Recent Developments/Updates

9.6.6 Nantong Runze Industrial Oil Competitive Strengths & Weaknesses

9.7 Liaoning Technom Technology

9.7.1 Liaoning Technom Technology Details

9.7.2 Liaoning Technom Technology Major Business

9.7.3 Liaoning Technom Technology Tempering Oil Product and Services

9.7.4 Liaoning Technom Technology Tempering Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Liaoning Technom Technology Recent Developments/Updates

9.7.6 Liaoning Technom Technology Competitive Strengths & Weaknesses

9.8 KUO HORNG LUBE

9.8.1 KUO HORNG LUBE Details

9.8.2 KUO HORNG LUBE Major Business

9.8.3 KUO HORNG LUBE Tempering Oil Product and Services

9.8.4 KUO HORNG LUBE Tempering Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 KUO HORNG LUBE Recent Developments/Updates

9.8.6 KUO HORNG LUBE Competitive Strengths & Weaknesses

9.9 Chongqing Hsenic

9.9.1 Chongqing Hsenic Details

9.9.2 Chongqing Hsenic Major Business

9.9.3 Chongqing Hsenic Tempering Oil Product and Services

9.9.4 Chongqing Hsenic Tempering Oil Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Chongqing Hsenic Recent Developments/Updates

9.9.6 Chongqing Hsenic Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Tempering Oil Industry Chain

10.2 Tempering Oil Upstream Analysis

10.2.1 Tempering Oil Core Raw Materials

10.2.2 Main Manufacturers of Tempering Oil Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Tempering Oil Production Mode

10.6 Tempering Oil Procurement Model

10.7 Tempering Oil Industry Sales Model and Sales Channels

10.7.1 Tempering Oil Sales Model

10.7.2 Tempering Oil Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Tempering Oil Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Tempering Oil Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Tempering Oil Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Tempering Oil Production Value Market Share by Region (2021-2026)
- Table 5. World Tempering Oil Production Value Market Share by Region (2027-2032)
- Table 6. World Tempering Oil Production by Region (2021-2026) & (Kilotons)
- Table 7. World Tempering Oil Production by Region (2027-2032) & (Kilotons)
- Table 8. World Tempering Oil Production Market Share by Region (2021-2026)
- Table 9. World Tempering Oil Production Market Share by Region (2027-2032)
- Table 10. World Tempering Oil Average Price by Region (2021-2026) & (US\$/Ton)
- Table 11. World Tempering Oil Average Price by Region (2027-2032) & (US\$/Ton)
- Table 12. Tempering Oil Major Market Trends
- Table 13. World Tempering Oil Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)
- Table 14. World Tempering Oil Consumption by Region (2021-2026) & (Kilotons)
- Table 15. World Tempering Oil Consumption Forecast by Region (2027-2032) & (Kilotons)
- Table 16. World Tempering Oil Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Tempering Oil Producers in 2025
- Table 18. World Tempering Oil Production by Manufacturer (2021-2026) & (Kilotons)
- Table 19. Production Market Share of Key Tempering Oil Producers in 2025
- Table 20. World Tempering Oil Average Price by Manufacturer (2021-2026) & (US\$/Ton)
- Table 21. Global Tempering Oil Company Evaluation Quadrant
- Table 22. World Tempering Oil Industry Rank of Major Manufacturers, Based on Production Value in 2025
- Table 23. Head Office and Tempering Oil Production Site of Key Manufacturer
- Table 24. Tempering Oil Market: Company Product Type Footprint
- Table 25. Tempering Oil Market: Company Product Application Footprint
- Table 26. Tempering Oil Competitive Factors
- Table 27. Tempering Oil New Entrant and Capacity Expansion Plans
- Table 28. Tempering Oil Mergers & Acquisitions Activity
- Table 29. United States VS China Tempering Oil Production Value Comparison, (2021

& 2025 & 2032) & (USD Million)

Table 30. United States VS China Tempering Oil Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Tempering Oil Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

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

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

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

Table 35. United States Based Manufacturers Tempering Oil Production (2021-2026) & (Kilotons)

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

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

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

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

Table 40. China Based Manufacturers Tempering Oil Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Tempering Oil Production Market Share (2021-2026)

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

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

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

Table 45. Rest of World Based Manufacturers Tempering Oil Production, (2021-2026) & (Kilotons)

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

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

Table 48. World Tempering Oil Production by Type (2021-2026) & (Kilotons)

Table 49. World Tempering Oil Production by Type (2027-2032) & (Kilotons)

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

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

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

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

Table 54. World Tempering Oil Production Value by Base Oil, (USD Million), 2021 & 2025 & 2032

Table 55. World Tempering Oil Production by Base Oil (2021-2026) & (Kilotons)

Table 56. World Tempering Oil Production by Base Oil (2027-2032) & (Kilotons)

Table 57. World Tempering Oil Production Value by Base Oil (2021-2026) & (USD Million)

Table 58. World Tempering Oil Production Value by Base Oil (2027-2032) & (USD Million)

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

Table 60. World Tempering Oil Average Price by Base Oil (2027-2032) & (US\$/Ton)

Table 61. World Tempering Oil Production Value by Application Environment, (USD Million), 2021 & 2025 & 2032

Table 62. World Tempering Oil Production by Application Environment (2021-2026) & (Kilotons)

Table 63. World Tempering Oil Production by Application Environment (2027-2032) & (Kilotons)

Table 64. World Tempering Oil Production Value by Application Environment (2021-2026) & (USD Million)

Table 65. World Tempering Oil Production Value by Application Environment (2027-2032) & (USD Million)

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

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

Table 68. World Tempering Oil Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Tempering Oil Production by Application (2021-2026) & (Kilotons)

Table 70. World Tempering Oil Production by Application (2027-2032) & (Kilotons)

Table 71. World Tempering Oil Production Value by Application (2021-2026) & (USD Million)

Table 72. World Tempering Oil Production Value by Application (2027-2032) & (USD Million)

Table 73. World Tempering Oil Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Tempering Oil Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Nippon Grease Basic Information, Manufacturing Base and Competitors

- Table 76. Nippon Grease Major Business
- Table 77. Nippon Grease Tempering Oil Product and Services
- Table 78. Nippon Grease Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 79. Nippon Grease Recent Developments/Updates
- Table 80. Nippon Grease Competitive Strengths & Weaknesses
- Table 81. Duratherm Basic Information, Manufacturing Base and Competitors
- Table 82. Duratherm Major Business
- Table 83. Duratherm Tempering Oil Product and Services
- Table 84. Duratherm Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Duratherm Recent Developments/Updates
- Table 86. Duratherm Competitive Strengths & Weaknesses
- Table 87. Idemitsu Basic Information, Manufacturing Base and Competitors
- Table 88. Idemitsu Major Business
- Table 89. Idemitsu Tempering Oil Product and Services
- Table 90. Idemitsu Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Idemitsu Recent Developments/Updates
- Table 92. Idemitsu Competitive Strengths & Weaknesses
- Table 93. Houghton Basic Information, Manufacturing Base and Competitors
- Table 94. Houghton Major Business
- Table 95. Houghton Tempering Oil Product and Services
- Table 96. Houghton Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Houghton Recent Developments/Updates
- Table 98. Houghton Competitive Strengths & Weaknesses
- Table 99. Yantai Thinking Finechem Technology Basic Information, Manufacturing Base and Competitors
- Table 100. Yantai Thinking Finechem Technology Major Business
- Table 101. Yantai Thinking Finechem Technology Tempering Oil Product and Services
- Table 102. Yantai Thinking Finechem Technology Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Yantai Thinking Finechem Technology Recent Developments/Updates
- Table 104. Yantai Thinking Finechem Technology Competitive Strengths & Weaknesses
- Table 105. Nantong Runze Industrial Oil Basic Information, Manufacturing Base and Competitors

- Table 106. Nantong Runze Industrial Oil Major Business
- Table 107. Nantong Runze Industrial Oil Tempering Oil Product and Services
- Table 108. Nantong Runze Industrial Oil Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Nantong Runze Industrial Oil Recent Developments/Updates
- Table 110. Nantong Runze Industrial Oil Competitive Strengths & Weaknesses
- Table 111. Liaoning Technom Technology Basic Information, Manufacturing Base and Competitors
- Table 112. Liaoning Technom Technology Major Business
- Table 113. Liaoning Technom Technology Tempering Oil Product and Services
- Table 114. Liaoning Technom Technology Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Liaoning Technom Technology Recent Developments/Updates
- Table 116. Liaoning Technom Technology Competitive Strengths & Weaknesses
- Table 117. KUO HORNG LUBE Basic Information, Manufacturing Base and Competitors
- Table 118. KUO HORNG LUBE Major Business
- Table 119. KUO HORNG LUBE Tempering Oil Product and Services
- Table 120. KUO HORNG LUBE Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. KUO HORNG LUBE Recent Developments/Updates
- Table 122. KUO HORNG LUBE Competitive Strengths & Weaknesses
- Table 123. Chongqing Hsenic Basic Information, Manufacturing Base and Competitors
- Table 124. Chongqing Hsenic Major Business
- Table 125. Chongqing Hsenic Tempering Oil Product and Services
- Table 126. Chongqing Hsenic Tempering Oil Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Chongqing Hsenic Recent Developments/Updates
- Table 128. Chongqing Hsenic Competitive Strengths & Weaknesses
- Table 129. Global Key Players of Tempering Oil Upstream (Raw Materials)
- Table 130. Global Tempering Oil Typical Customers
- Table 131. Tempering Oil Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Tempering Oil Picture

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

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

Figure 4. World Tempering Oil Production (2021-2032) & (Kilotons)

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

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

Figure 7. World Tempering Oil Production Market Share by Region (2021-2032)

Figure 8. North America Tempering Oil Production (2021-2032) & (Kilotons)

Figure 9. Europe Tempering Oil Production (2021-2032) & (Kilotons)

Figure 10. China Tempering Oil Production (2021-2032) & (Kilotons)

Figure 11. Japan Tempering Oil Production (2021-2032) & (Kilotons)

Figure 12. Tempering Oil Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 15. World Tempering Oil Consumption Market Share by Region (2021-2032)

Figure 16. United States Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 17. China Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Tempering Oil Consumption (2021-2032) & (Kilotons)

Figure 22. India Tempering Oil Consumption (2021-2032) & (Kilotons)

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

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

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

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

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

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

Figure 29. United States Based Manufacturers Tempering Oil Production Market Share 2025

Figure 30. China Based Manufacturers Tempering Oil Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Tempering Oil Production Market Share 2025

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

Figure 33. World Tempering Oil Production Value Market Share by Type in 2025

Figure 34. Low-Temperature Tempering Oil(150-250°C)

Figure 35. Medium-Temperature Tempering Oil(250-400°C)

Figure 36. High-Temperature Tempering Oil(400-600°C)

Figure 37. World Tempering Oil Production Market Share by Type (2021-2032)

Figure 38. World Tempering Oil Production Value Market Share by Type (2021-2032)

Figure 39. World Tempering Oil Average Price by Type (2021-2032) & (US\$/Ton)

Figure 40. World Tempering Oil Production Value by Base Oil, (USD Million), 2021 & 2025 & 2032

Figure 41. World Tempering Oil Production Value Market Share by Base Oil in 2025

Figure 42. Mineral Oil-based

Figure 43. Synthetic Oil-based

Figure 44. Vegetable Oil-based

Figure 45. World Tempering Oil Production Market Share by Base Oil (2021-2032)

Figure 46. World Tempering Oil Production Value Market Share by Base Oil (2021-2032)

Figure 47. World Tempering Oil Average Price by Base Oil (2021-2032) & (US\$/Ton)

Figure 48. World Tempering Oil Production Value by Application Environment, (USD Million), 2021 & 2025 & 2032

Figure 49. World Tempering Oil Production Value Market Share by Application Environment in 2025

Figure 50. Atmospheric Tempering Oil

Figure 51. Vacuum Tempering Oil

Figure 52. World Tempering Oil Production Market Share by Application Environment (2021-2032)

Figure 53. World Tempering Oil Production Value Market Share by Application Environment (2021-2032)

Figure 54. World Tempering Oil Average Price by Application Environment (2021-2032) & (US\$/Ton)

Figure 55. World Tempering Oil Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Tempering Oil Production Value Market Share by Application in 2025

Figure 57. Automobile Manufacturing

Figure 58. Aerospace

Figure 59. Mechanical Manufacturing

Figure 60. Others

Figure 61. World Tempering Oil Production Market Share by Application (2021-2032)

Figure 62. World Tempering Oil Production Value Market Share by Application (2021-2032)

Figure 63. World Tempering Oil Average Price by Application (2021-2032) & (US\$/Ton)

Figure 64. Tempering Oil Industry Chain

Figure 65. Tempering Oil Procurement Model

Figure 66. Tempering Oil Sales Model

Figure 67. Tempering Oil Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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