

Global Tempering Oil Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Tempering Oil market size was valued at US\$ 593 million in 2025 and is forecast to a readjusted size of US\$ 818 million by 2032 with a CAGR of 4.7% during review period.

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 is a detailed and comprehensive analysis for global Tempering Oil market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tempering Oil market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Tempering Oil market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Tempering Oil market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global Tempering Oil market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Tempering Oil

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Tempering Oil market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Tempering Oil market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

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

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

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

Market segment by Base Oil

Mineral Oil-based

Synthetic Oil-based

Vegetable Oil-based

Market segment by Application Environment

Atmospheric Tempering Oil

Vacuum Tempering Oil

Market segment by Application

Automobile Manufacturing

Aerospace

Mechanical Manufacturing

Others

Major players covered

Nippon Grease

Duratherm

Idemitsu

Houghton

Yantai Thinking Finechem Technology

Nantong Runze Industrial Oil

Liaoning Technom Technology

KUO HORNG LUBE

Chongqing Hsenic

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Tempering Oil product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tempering Oil, with price, sales quantity, revenue, and global market share of Tempering Oil from 2021 to 2026.

Chapter 3, the Tempering Oil competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Tempering Oil breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Tempering Oil market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Tempering Oil.

Chapter 14 and 15, to describe Tempering Oil sales channel, distributors, customers, research findings and conclusion.

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