

Global Solar Thermal Fluid Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G75F71E217BBEN.html>

Date: August 2025

Pages: 137

Price: US\$ 3,480.00 (Single User License)

ID: G75F71E217BBEN

Abstracts

According to our (Global Info Research) latest study, the global Solar Thermal Fluid market size was valued at US\$ 712 million in 2024 and is forecast to a readjusted size of USD 1213 million by 2031 with a CAGR of 8.0% during review period.

The solar thermal fluid market is expected to witness significant growth in the coming years due to the increasing adoption of renewable energy sources and the growing demand for clean and sustainable energy solutions. Solar thermal fluid, also known as heat transfer fluid, is used in concentrated solar power (CSP) plants to transfer heat from the solar collectors to the power generation system. The United States and Canada are the major sales regions for solar thermal fluid in North America. The region has a well-established renewable energy sector and favorable government policies promoting the use of solar energy. Countries like Germany, Spain, and Italy are the major sales regions for solar thermal fluid in Europe. The region has a strong focus on renewable energy and has implemented various incentives and subsidies to encourage the adoption of solar thermal technology. China, India, and Japan are the major sales regions for solar thermal fluid in the Asia Pacific. The region has a rapidly growing population and increasing energy demand, which is driving the adoption of solar thermal technology. The solar thermal fluid market is moderately concentrated, with a few key players dominating the market. These companies have a strong presence in major sales regions and have established partnerships with CSP plant developers and operators. However, the market is also witnessing the entry of new players, especially in emerging economies, which is expected to increase competition in the market. The growing investments in CSP plants, especially in developing countries, present significant opportunities for the solar thermal fluid market. CSP plants are being considered as a viable alternative to traditional fossil fuel-based power plants, which is

driving the demand for solar thermal fluid. The development of advanced solar thermal fluid formulations with improved thermal stability and efficiency is expected to drive market growth. Companies are investing in research and development activities to enhance the performance of solar thermal fluids, which will create new opportunities in the market. The high capital costs associated with setting up CSP plants and the need for specialized equipment and infrastructure pose a challenge to the widespread adoption of solar thermal technology. The high initial investment required for CSP plants can deter potential investors and limit market growth. Solar thermal technology faces competition from other renewable energy sources like solar photovoltaic (PV) and wind power. The declining costs of solar PV and wind energy systems make them more attractive options for power generation, which can hinder the growth of the solar thermal fluid market.

This report is a detailed and comprehensive analysis for global Solar Thermal Fluid 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 Solar Thermal Fluid market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Solar Thermal Fluid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Solar Thermal Fluid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Solar Thermal Fluid market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Solar Thermal Fluid

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 Solar Thermal Fluid 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 Sentinel, Fernox, Hydratech, Grant, Tyforop, Pirobloc, Paratherm, Duratherm, Climalife, RVR, etc.

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

Market Segmentation

Solar Thermal Fluid market is split by Type and by Application. For the period 2020-2031, 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

Ethylene Glycol

Non-ethylene Glycol

Market segment by Application

Power Generation

Heating and Cooling

Desalination

Other

Major players covered

Sentinel

Fernox

Hydratech

Grant

Tyforop

Pirobloc

Paratherm

Duratherm

Climalife

RVR

Radco Industries

Blended

Dow Chemical

Eastman

ExxonMobil

Global Heat Transfer

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 Solar Thermal Fluid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solar Thermal Fluid, with price, sales quantity, revenue, and global market share of Solar Thermal Fluid from 2020 to 2025.

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

Chapter 4, the Solar Thermal Fluid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Solar Thermal Fluid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Solar

Thermal Fluid.

Chapter 14 and 15, to describe Solar Thermal Fluid sales channel, distributors, customers, research findings and conclusion.

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