

Global Immersion Cooling Battery Safety Fluid 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 Immersion Cooling Battery Safety Fluid market size was valued at US\$ 196 million in 2025 and is forecast to a readjusted size of US\$ 466 million by 2032 with a CAGR of 12.8% during review period.

In 2025, global Immersion Cooling Battery Safety Fluid production reached approximately 15.83 thousand tons, with an average global market price of around USD 12 per kilogram.

The gross profit margin of major companies in the industry is between 35%-55%.

In 2025, the global production capacity of Immersion Cooling Battery Safety Fluid was approximately 20 thousand tons.

Immersion Cooling Battery Safety Fluid is a specialized dielectric cooling liquid used to directly immerse battery cells or modules for thermal management and safety improvement. It provides heat dissipation, electrical insulation, fire risk reduction, and thermal runaway protection. It is used in electric vehicles, energy storage systems, and high-power battery applications. The product boundary excludes conventional water-based coolants, refrigerants, and battery thermal management hardware.

The industry chain includes upstream synthetic fluids, fluorinated compounds, hydrocarbon materials, additives, and purification equipment. Midstream manufacturers conduct formulation, filtration, testing, and packaging. Downstream demand comes from battery makers, EV companies, energy storage providers, and thermal management

solution suppliers.

This report is a detailed and comprehensive analysis for global Immersion Cooling Battery Safety 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 Immersion Cooling Battery Safety Fluid market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Immersion Cooling Battery Safety Fluid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Immersion Cooling Battery Safety Fluid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Immersion Cooling Battery Safety Fluid market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Immersion Cooling Battery Safety 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 Immersion Cooling Battery Safety 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 3M Company, ExxonMobil Corporation, Shell plc, Dow Inc., Chemours Company, Solvay SA, M&I Materials Ltd., Fuchs SE, Castrol (BP plc), TotalEnergies, etc.

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

Market Segmentation

Immersion Cooling Battery Safety Fluid 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

- Fluorinated Dielectric Fluids

- Synthetic Hydrocarbon Dielectric Fluids

- Synthetic Ester Dielectric Fluids

Market segment by Fire Safety Performance

- Non-flammable Fluids

- Fire-resistant Fluids

- Combustible Fluids

Market segment by Kinematic Viscosity at 40°C

- Low-viscosity Type < 5 mm²/s

Medium-viscosity Type??5-20 mm²/s?

High-viscosity Type??20 mm²/s?

Market segment by Application

Electric Vehicle Battery Systems

Stationary Energy Storage Systems

Marine and Industrial Battery Systems

Other

Major players covered

3M Company

ExxonMobil Corporation

Shell plc

Dow Inc.

Chemours Company

Solvay SA

M&I Materials Ltd.

Fuchs SE

Castrol (BP plc)

TotalEnergies

Sinopec Lubricant Company

PetroChina Kunlun Lubricant Company

Zhongke Sanhuan Co., Ltd.

Guangdong Guanghua Sci-Tech Co., Ltd.

Shenzhen Capchem Technology Co., Ltd.

Guangzhou Tinci Materials Technology Co., Ltd.

Dongyue Group Limited

Jiangsu Yoke Technology Co., Ltd.

Shanghai Huayi Fine Chemical Co., Ltd.

Zhejiang Noah Fluorochemical Co., Ltd.

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 Immersion Cooling Battery Safety Fluid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Immersion Cooling Battery Safety Fluid, with price, sales quantity, revenue, and global market share of Immersion Cooling Battery Safety Fluid from 2021 to 2026.

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

Chapter 4, the Immersion Cooling Battery Safety Fluid 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 Immersion Cooling Battery Safety Fluid 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 Immersion Cooling Battery Safety Fluid.

Chapter 14 and 15, to describe Immersion Cooling Battery Safety Fluid sales channel, distributors, customers, research findings and conclusion.

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