

# Market Analysis on Fluorocarbon Gas market, Washer market and Biopolyethylene market forecasted till 2030

*Market Analysis on Fluorocarbon Gas market, Washer market and Biopolyethylene market forecasted till 2030*

SEATTLE , WASHINGTON, USA, July 10, 2023 /EINPresswire.com/ --

## Executive Summary:

The Fluorocarbon Gas market research report provides a thorough analysis of market conditions, including trends, drivers, challenges, and opportunities. The report estimates a market size of USD 748.60 in 2022 and is expected to grow at a CAGR of 5.60% from 2023 to 2030. The increasing demand for refrigeration and air-conditioning systems for commercial and domestic purposes is one of the primary factors driving the market growth. The report highlights the key players in the market, including Arkema S.A., Daikin Industries, Ltd., Honeywell International, Inc., and The Chemours Company.

Fluorocarbon gases are used extensively in various industries, including refrigeration and air conditioning, healthcare, and electronics. With the growing demand for these gases, the fluorocarbon gas market has witnessed a surge in competition. The major players operating in the fluorocarbon gas market include Linde Gas, Showa Denko, Taiyo Nippon Sanso, Air Liquide, Kanto Denka Kogyo, Versum Materials (Merck), Foosung Co., Ltd., SK Materials, Huate Gas, Kemeite (Yoke Technology), Haohua, and Jinhong Gas.

As per fiscal year 2020 sales revenue figures, Linde Gas generated \$28.6 billion, while Air Liquide generated \$22.4 billion. Showa Denko generated \$6.5 billion, Kanto Denka Kogyo generated \$1.4 billion while Versum Materials (Merck) generated \$425 million in sales revenue.

Fluorocarbon gases are used extensively in various industries due to their unique properties. There are various types of fluorocarbon gases available in the market, including Tetrafluoromethane (CF<sub>4</sub>), Hexafluoroethane (C<sub>2</sub>F<sub>6</sub>), Octafluoropropane (C<sub>3</sub>F<sub>8</sub>), Hexafluorobutadiene (C<sub>4</sub>F<sub>6</sub>), Octafluorocyclobutane (C<sub>4</sub>F<sub>8</sub>), and Tetrafluoromethane (CHF<sub>3</sub>). Tetrafluoromethane is used in the semiconductor industry for plasma etching and cleaning processes, while Hexafluoroethane is used in the manufacturing of semiconductors and micro-electronics. Similarly, Octafluoropropane is used as a refrigerant in cryogenic applications and as a fire suppression agent in the aerospace industry. Hexafluorobutadiene finds its application in

the production of microelectronic circuits, while Octafluorocyclobutane is used as a specialty gas in the semiconductor industry. Tetrafluoromethane is used in plasma-enhanced chemical vapor deposition (PECVD) processes. The increasing demand for fluorocarbon gases across various end-use industries, such as electronics, automotive, aerospace, and medical, is boosting the demand for fluorocarbon gases in the global market.

Fluorocarbon gases, such as tetrafluoromethane (CF<sub>4</sub>) and hexafluoroethane (C<sub>2</sub>F<sub>6</sub>), are widely used in the electronics industry for the manufacturing of integrated circuits, display panels, solar cells, and LED lights. These gases are used for etching and cleaning processes during the fabrication of microelectronic devices. The high reactivity of fluorocarbon gas allows for precise etching of materials, thus enabling the production of smaller and more complex devices. In display panels, fluorocarbon gas is used to deposit and remove thin layers of materials such as indium tin oxide, which is essential for the functioning of touch screens. In solar cells, fluorocarbon gas is used to deposit layers of silicon, which is a key component of photovoltaic cells.

The Asia Pacific region is expected to dominate the Fluorocarbon Gas market, with a market share of around 40% by the end of 2028. North America and Europe are also expected to be significant markets for Fluorocarbon Gas, with expected market shares of around 30% and 20%, respectively.

In terms of individual countries, China is expected to be the largest market for Fluorocarbon Gas in the Asia Pacific region, followed by India and Japan. In North America, the United States is expected to be the largest market, while in Europe, Germany is expected to lead the market.

Click here for more information: <https://www.reportprime.com/fluorocarbon-gas-r326>

#### Executive Summary:

The washer market research reports suggest that it is driven by increasing household incomes, rising consumer awareness about product efficiency, and the surge in housing projects. The demand for front-loading machines is growing due to higher efficiency and energy-saving advantages. In addition, there is a growing demand for intelligent washing machines and smart appliances, which would further fuel market growth. The global washer market size was estimated to be around \$1.80 billion in 2022 and is projected to grow at a CAGR of 1.99% from 2023 to 2030. The Asia Pacific region is the largest market for washers due to urbanization and increasing disposable income.

The global washer market is highly competitive and fragmented. The market is characterized by the presence of a large number of companies operating in the market. Some of the prominent players in the market include Würth, Bossard, Shanghai PMC, Nord-Lock, Fontana Gruppo, Schnorr, Growermetal, STANLEY, Ciser, MW Industries, PCC, LISI, HEICO, Gem-Year, Mubea, Aoyama Seisakusho, Araymond, ITW Shakeproof, TR Fastenings, Boltun Corporation, and many more.

These companies provide a range of washers, including flat washers, spring washers, lock washers, and others. They cater to various industries, such as automotive, construction, aerospace, and others.

Würth, Bossard, and Nord-Lock are some of the leading players in the washer market. For instance, in 2019, Würth Group reported revenue of \$16.8 billion, whereas Bossard reported revenue of \$843.4 million.

A washer is a critical component of a fastener assembly, used to distribute the load of a threaded fastener and prevent loosening or damage to the fastening surface. There are several types of washers, namely plain washers, spring washers, locking washers, and others. Plain washers are flat washers made of metal or plastic that are used to distribute load or pressure evenly on a surface. Spring washers are designed to provide a flexible preload by producing a spring force that further prevents loosening of the nut or bolt, while locking washers are used to prevent fasteners from loosening due to vibration. Other types include tooth lock washers, square washers, and special washers.

Washers are extensively used in various industries like automotive, machinery, construction, electronics, MRO, and others. In the automotive industry, washers are used in engine and transmission systems, brakes, suspension, and steering systems to prevent leakage and fastening of various components. In the electronics industry, washers are utilized in circuit boards to ensure electrical conductivity and prevent oxidation and corrosion. In the construction industry, washers are used for fastening and securing bolts, screws, and nuts. In the MRO industry, washers are used for repair and maintenance of various equipment and machinery such as pumps, turbines, and generators.

The Asia-Pacific region is expected to dominate the Washer market with a market share of over 45% by the year 2025. This is due to the increasing urbanization, rising disposable income, and growing demand for energy-efficient and smart washing machines in countries like China and India. The North American and European regions are also expected to have significant market shares of around 25% and 20%, respectively, during the forecast period. Other regions, such as Latin America and the Middle East, are also anticipated to witness significant growth in the washer market in the coming years. Altogether, the global washer market is expected to be valued at over \$115 billion by 2025 with the Asia-Pacific region leading the way.

Click here for more information: <https://www.reportprime.com/washer-r327>

Executive Summary:

PE-RT market research reports analyze the current market conditions and future growth potential of the PE-RT industry. The study takes into account the key challenges and opportunities in the market, as well as the competitive landscape and government regulations. The global PE-RT market size was valued at USD 874.40 million in 2022 and is expected to grow at a CAGR of 4.20% during the forecast period (2023-2030). The growing demand for PE-RT in

various sectors, such as plumbing, heating, and cooling systems, is driving the market growth. Geographically, the Asia-Pacific region is expected to dominate the PE-RT market due to the increasing infrastructure development and technological advancements in the region.

PE-RT (Polyethylene of Raised Temperature Resistance) is a type of plastic used for various applications such as hot and cold water plumbing, heating, and underfloor heating systems. The global PE-RT market is competitive and is expected to grow at a considerable rate due to various factors such as the increasing demand for energy-efficient heating systems and plumbing applications.

DuPont, SK, LG Chem, LyondellBasell, DAELIM, INEOS Group, Sinopec, Dow Chemical, CNPC, DL Chemical are some of the leading companies operating in the PE-RT market. These companies play a crucial role in supporting the growth of the market by providing high-quality PE-RT products while maintaining a competitive price sensitive market.

According to the latest financial reports, DuPont sales revenue for Q3 2021 is USD 4.6 billion, SK sales revenue for Q3 2021 is USD 17.3 billion, LG Chem sales revenue for Q2 2021 is USD 8.1 billion, LyondellBasell sales revenue for Q2 2021 is USD 11.8 billion, and INEOS Group sales revenue for the year 2020 is USD 25.4 billion. These financial figures indicate the market expansion potential for PE-RT and other polymer materials.

PE-RT is a type of polyethylene used for plumbing and radiant heating applications. The different types of PE-RT are ETHYLENE-OCTENE (PE-RT Type I), ETHYLENE-HEXENE (PE-RT Type II), and ETHYLENE-BUTENE (PE-RT Type III). These types differ in their molecular structure, with the number of octene, hexene, or butene comonomers used in their production. Ethylene-octene (PE-RT Type I) has the highest flexibility, while ethylene-butene (PE-RT Type III) has the highest temperature resistance.

The demand for PE-RT has been increasing due to its superior properties over other materials used in plumbing and radiant heating applications that include flexibility, high-temperature resistance, corrosion resistance, and durability. Among the PE-RT types, ethylene-octene (PE-RT Type I) is the most commonly used because of its high flexibility, easy installation, and resistance to cracking, which makes it suitable for plumbing in residential and commercial buildings.

PE-RT (Polyethylene of Raised Temperature) is used in several applications, the most common of which are under-floor and wall heating & cooling, plumbing, and drinking water supply. PE-RT is an ideal material for under-floor and wall heating & cooling due to its flexibility, high-temperature resistance, and excellent creep resistance. In plumbing and drinking water supply, it is used for its high tribological and chemical resistance to prevent corrosion and bacterial growth. PE-RT is also used in industrial pipes and fittings for its excellent chemical resistance, thermal stability, durability, and cost-effectiveness. Other applications include gas distribution, mining, agriculture, and telecommunications.

The global PE-RT market is expected to grow substantially in the coming years, with North America, APAC, Europe, the USA, and China being some of the major regions driving this growth. North America is expected to dominate the market owing to the widespread adoption of PE-RT tubes in applications such as floor heating systems, snow melting systems, and domestic water supply systems. Europe is also anticipated to witness significant growth due to the presence of several industrial manufacturers and high demand for PE-RT pipes. In APAC, the growth of the market is attributed to the rising construction activities and the increasing demand for energy-efficient heating systems. The USA and China are also likely to witness considerable growth in the market due to the increasing adoption of PE-RT pipes in various end-use industries.

Click here for more information: <https://www.reportprime.com/biopolyethylene-r328>

Mohit Patil

Prime PR Wire

+1 951-407-0500

[email us here](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/643368748>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2023 Newsmatics Inc. All Right Reserved.