

China Automotive Adhesives Market By Type (Epoxy, Polyurethane, Acrylic, Silicone), By Formulation (Water-Based, Solvent-Based, Hot-Melt, Others), By Region, Competition, Forecast and Opportunities, 2018-2028F

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Abstracts

China Automotive Adhesives Market is anticipated to project robust growth in the forecast period. The automotive adhesives market plays an essential role in the broader adhesives market in China, contributing significantly to its overall growth. Adhesives are widely used in diverse sectors, including construction, automotive, and packaging. The versatility and reliability of adhesives make them a preferred choice for various applications in these industries. However, the utilization of adhesives in the automotive industry is increasingly dominating the market, driven by the unique demands and requirements of this sector.

Several factors are driving the growth of the automotive adhesives market in China. One key factor is the increasing adoption of lightweight materials in the automotive industry. As automakers strive to improve fuel efficiency and reduce emissions, the use of lightweight materials such as aluminum, composites, and plastics has become more prevalent. These lightweight materials offer benefits such as improved fuel economy and enhanced performance. However, their successful integration and assembly in vehicles necessitate the use of high-performance adhesives. This demand for specialized adhesives tailored to lightweight materials is expected to continue to drive the market forward.

Government initiatives are also playing an instrumental role in the market's growth. The Chinese government has been implementing policies to promote the manufacturing sector, including the automotive industry. These policies aim to enhance domestic

production capabilities, increase technological innovation, and strengthen the competitiveness of Chinese automakers in the global market. As a result, there has been rapid industrialization and expansion in the automotive sector, leading to increased demand for automotive adhesives.

In conclusion, the China Automotive Adhesives Market is a dynamic and competitive sector that offers numerous opportunities for growth and innovation. The market's growth is driven by the increasing adoption of lightweight materials, government initiatives, and a strong focus on research and development. As the automotive industry continues to evolve and advance, the demand for specialized adhesives that can meet the unique requirements of modern vehicles will continue to rise, presenting exciting prospects for the automotive adhesives market in China.

Key Market Drivers

Growth in Automotive Industry

In 2021 alone, China produced over 21.41 million cars, solidifying its position as a powerhouse in the automotive industry. This remarkable production volume highlights the immense scale of China's automotive sector and the subsequent demand for automotive adhesives. These specialized adhesives play a critical role in vehicle construction, offering a multitude of mechanical fasteners and advantages over traditional mechanical fasteners and welds.

One of the key factors driving the growth of the automotive adhesives market in China is the increasing use of lightweight materials in car manufacturing. As automotive manufacturers strive to enhance fuel efficiency and reduce emissions, they are turning to these lightweight materials. Consequently, the demand for high-performance adhesives capable of effectively bonding these materials has surged.

Furthermore, advancements in adhesive technologies have significantly contributed to the expansion of the market. Ongoing innovations in this field have led to the development of more efficient and cost-effective adhesive solutions, meeting the evolving needs of the automotive industry. These advancements have not only improved the performance and durability of adhesives but have also enhanced design flexibility.

Government initiatives have played a crucial role in fostering the growth of the automotive adhesives market in China. Various policies aimed at promoting the

manufacturing sector have led to rapid industrialization, consequently increasing the demand for automotive adhesives. The government's support has created a favorable environment for the market to thrive and expand.

China's emergence as the largest automotive producer globally has not only benefited the country's automotive industry but also its automotive adhesives market. With car production showing no signs of slowing down, the demand for automotive adhesives in China is well-positioned for continued growth.

In conclusion, the growth of China's automotive industry serves as a significant driver for the expansion of the automotive adhesives market. As the industry continues to evolve and embrace new technologies and materials, the demand for advanced automotive adhesives is expected to rise, propelling further growth in this dynamic market.

Surge in Technological Advancements

The automotive adhesives market is a vital and integral component of car manufacturing, playing a crucial role in various aspects such as weight reduction, improved stress distribution, and enhanced design flexibility. As China continues to hold the position of the largest car producer globally, the demand for automotive adhesives remains consistently high.

Technological advancements have paved the way for the development of more efficient and cost-effective adhesive solutions. These innovative adhesive solutions are designed to meet the evolving needs of the automotive industry, particularly in response to the increasing utilization of lightweight materials aimed at improving fuel efficiency and reducing emissions. Consequently, the demand for high-performance adhesives capable of effectively bonding these lightweight materials has experienced a significant surge, driving the continued growth of the automotive adhesives market.

Moreover, the rapid progression of digital technologies has also played a pivotal role in shaping the growth trajectory of the automotive adhesives market. The global COVID-19 pandemic has acted as a catalyst for the widespread adoption of digital technologies across various sectors, including the automotive industry. The application of these digital technologies in manufacturing processes, including the production of automotive adhesives, has resulted in enhanced efficiency, productivity, and overall operational effectiveness.

Furthermore, emerging technologies such as industrial robots, artificial intelligence (AI), and machine learning are advancing at an unprecedented pace. These transformative technologies hold immense potential to revolutionize the production processes within the automotive adhesives market, further augmenting its growth potential and paving the way for new possibilities and opportunities.

Key Market Challenges

Complexities Associated with High Performance and Durability Requirements

Automotive adhesives play a crucial role in the construction of vehicles, offering numerous advantages over traditional mechanical fasteners. These adhesives not only contribute to weight reduction but also improve stress distribution and provide enhanced design flexibility. However, meeting the stringent performance criteria for these adhesives is no easy task. They must exhibit resistance to high temperatures, corrosion, and vibration, ensuring their durability under harsh operating conditions.

Manufacturers face constant challenges in developing adhesives that can withstand these demanding conditions while maintaining their bonding capabilities. Achieving such high-performance adhesives requires extensive research and development efforts, which, in turn, lead to increased costs.

Adding to the complexity is the introduction of lightweight materials in the automotive industry. These materials, adopted to enhance fuel efficiency and reduce emissions, necessitate the use of special types of adhesives. The development of adhesive solutions that can effectively bond these lightweight materials without compromising durability is a complex and intricate task.

Furthermore, the ever-evolving safety regulations and environmental standards impose additional challenges on manufacturers in the automotive adhesives market. Ensuring that their products meet these standards requires meticulous attention to detail and thorough testing, further complicating the landscape.

In addition to these challenges, the automotive industry's shift towards electric vehicles (EVs) introduces a whole new set of requirements. EVs have different design and manufacturing needs compared to traditional vehicles. Therefore, the development of new adhesive solutions tailored to these specific requirements becomes imperative.

In summary, the automotive adhesives market is continuously evolving, driven by the

need to meet demanding performance criteria, adapt to lightweight materials, comply with safety regulations, and address the unique requirements of electric vehicles. This dynamic landscape calls for ongoing innovation and collaboration within the industry to develop advanced adhesive solutions that meet the ever-growing demands of the automotive sector.

Key Market Trends

Growing Emphasis on Lightweighting

As the largest car producer globally, China's automotive industry plays a pivotal role in driving the country's economy. With a growing emphasis on sustainability and reduced carbon emissions, the industry has experienced a significant shift towards lightweight vehicles.

This shift towards lightweight vehicles has led to an increased demand for automotive adhesives, which offer numerous advantages over traditional mechanical fasteners. These adhesives play a crucial role in vehicle assembly, allowing for the bonding of dissimilar materials like metals and composites, commonly used in lightweight vehicles. This not only enhances design flexibility but also improves stress distribution, ensuring the structural integrity of these vehicles.

The lightweighting trend has been further fueled by government regulations aimed at reducing carbon emissions. Manufacturers are increasingly adopting lightweight materials to comply with these regulations and meet their sustainability goals. This includes the use of automotive adhesives, which enable the construction of lighter and more fuel-efficient vehicles.

Moreover, the growth of the electric vehicle (EV) market has contributed significantly to the lightweighting trend. EVs often rely on lightweight materials to offset the weight of the battery, making automotive adhesives even more crucial in ensuring the overall efficiency and performance of these vehicles.

In conclusion, the automotive industry's focus on lightweight vehicles, driven by sustainability goals and the growth of the EV market, has created a substantial demand for automotive adhesives. These adhesives not only facilitate the assembly of lightweight vehicles but also offer a range of benefits, making them indispensable in the production of modern automobiles.

Segmental Insights

Type Insights

Based on the category of type, the polyurethane segment emerged as the dominant player in the Chinese market for automotive adhesives in 2022. The Asia-Pacific region, with China leading the way, is expected to dominate the automotive polyurethane (PU) adhesives market. This is mainly due to the presence of major automotive manufacturers in the region. China, specifically, stands out as the world's largest car producer, creating a significant demand for automotive adhesives and offering a vast market for polyurethane adhesives.

One of the key factors driving this market growth is the growing emphasis on lightweight vehicles to enhance fuel efficiency and reduce emissions. As a result, there is an increased demand for lightweight adhesives that can deliver superior bonding capabilities while remaining lightweight themselves. Polyurethane adhesives are renowned for their ability to provide both excellent bonding performance and a lightweight solution, making them the ideal choice for this purpose.

Additionally, the expansion of the PU adhesives market is being fueled by the overall economic conditions and the widespread adoption of these adhesives across various industries, including automotive. As industries continue to recognize the benefits of polyurethane adhesives in terms of their versatility, durability, and cost-effectiveness, the demand for these adhesives is expected to keep growing.

Formulation Insights

The hot-melt segment is projected to experience rapid growth during the forecast period. Hot melt adhesives have experienced a substantial surge in demand from the packaging sector, making them a key driver of overall market growth. With packaging being a critical component of the automotive industry, this increased demand directly impacts the automotive adhesives market, which is poised for significant expansion.

Furthermore, hot melt adhesives are not only in high demand but also known for their eco-friendliness and solvent-free nature. This makes them particularly appealing in today's era where environmental sustainability is a growing concern. As the automotive industry increasingly focuses on adopting green manufacturing practices, the use of hot melt adhesives aligns perfectly with these sustainability goals.

Regional Insights

South Central emerged as the dominant player in the China Automotive Adhesives Market in 2022, holding the largest market share in terms of value. The South Central region, encompassing various states, is home to a multitude of industries such as manufacturing and automotive. These industries, with their diverse requirements, present a significant demand for a wide range of adhesives that cater to their specific needs and applications.

China's remarkable growth as a global manufacturing hub has been particularly evident in the South Central region. The region's strategic location, combined with China's competitive advantage in production capabilities, has contributed to its prominence in the adhesives market. The rising demand for innovative adhesive solutions across different manufacturing processes has further fueled this growth, as industries seek efficient and reliable bonding solutions to enhance their productivity.

The automotive industry, in particular, has witnessed the dominance of China, specifically within the South Central region. Its high productive capacity, facilitated by large-scale production and a vast consumer market, has positioned the region as a key player in the automotive sector. This has not only propelled the demand for adhesives but has also fostered advancements in adhesive technologies to meet the stringent requirements of this dynamic industry.

Key Market Players

Shanghai Huitian New Material Co., Ltd.

Henkel (China) Co., Ltd.

H.B. Fuller (China) Adhesives Co., Ltd.

3M China Limited

Sika (China) Limited

Report Scope:

In this report, the China Automotive Adhesives Market has been segmented into the

China Automotive Adhesives Market By Type (Epoxy, Polyurethane, Acrylic, Silicone), By Formulation (Water-Base...

following categories, in addition to the industry trends which have also been detailed below:

China Automotive Adhesives Market, By Type:

Epoxy

Polyurethane

Acrylic

Silicone

China Automotive Adhesives Market, By Formulation:

Water-Based

Solvent-Based

Hot-Melt

Others

China Automotive Adhesives Market, By Region:

East

North & North-East

Southwest

South Central

Northwest

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the China

China Automotive Adhesives Market By Type (Epoxy, Polyurethane, Acrylic, Silicone), By Formulation (Water-Base...

Automotive Adhesives Market.

Available Customizations:

China Automotive Adhesives Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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