

**Vietnam Naphthalene and PCE based Admixtures Market By Type (Polycarboxylate Ether, Sulphonated Naphthalene Formaldehyde (SNF), and Sulphonated Melamine Formaldehyde (SMF)), By Application (Naphthalenesulfonic Acids, Phthalic Anhydride, Laboratory Uses), By Region, Competition, Forecast & Opportunities, 2019-2029F**

Market Report | 2024-12-06 | 85 pages | TechSci Research

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**Report description:**

Vietnam Naphthalene and PCE based Admixtures Market was valued at USD 162.68 Million in 2023 and is anticipated to reach USD 204.08 Million in 2029 with a CAGR of 4.05% during forecast period. Naphthalene and PCE-based admixtures play a crucial role in modern construction projects, where they are used to enhance the properties of concrete, including its workability and durability. As Vietnam undergoes rapid urbanization, the demand for these admixtures is projected to increase significantly. A critical aspect of the market's future lies in comparing PCE superplasticizers with SNF (Sulphonated Naphthalene Formaldehyde) water-reducing agents. While both are commonly used admixtures, PCE superplasticizers are gaining preference due to their exceptional performance in reducing water content and improving concrete strength. The Vietnam Naphthalene and PCE-based admixtures market is poised for steady growth, driven by the robust construction industry in the country. As infrastructure development continues to flourish, the demand for these essential admixtures is anticipated to soar, promising a bright future for this market. With the continuous advancement of construction practices, the utilization of these admixtures will further contribute to the overall strength, durability, and sustainability of concrete in Vietnam's dynamic construction landscape.

**Key Market Drivers**

**Rise in Infrastructural Development**

Vietnam's rapid infrastructural development is proving to be a significant driver of the country's Naphthalene and Polycarboxylate Ether (PCE) based admixtures market. Amidst a booming economy, the country's infrastructural landscape is evolving at an unprecedented pace, opening up numerous opportunities for various sectors, including the construction materials industry.

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According to a 2024 report by the 'Vietnam Law & Legal Forum,' Vietnam ranks among the leading Asian nations in infrastructure investment, dedicating 5.7 percent of its Gross Domestic Product (GDP) to this sector, as stated by Ambassador Dang Hoang Giang, Vietnam's Permanent Representative to the United Nations (UN). To date, the country has completed 1,729 km of expressways and aims to increase this to 3,000 km by 2025. The Vietnamese government continues to prioritize sustainable infrastructure development, focusing on investments in renewable energy, green transportation systems, and the promotion of electric public vehicles.

Vietnam, known for its ambitious plans for infrastructure, aims to construct tens of thousands of kilometers of expressways, high-speed rail lines, deepwater ports, and international airports. These visionary projects, set to transform the country's transportation and logistics networks, will require vast amounts of concrete. As a result, the demand for Naphthalene and PCE-based admixtures, which are used to enhance the properties of concrete, is expected to soar. To sustain its continued infrastructural growth, Vietnam is actively engaging the private sector through public-private partnerships (PPP) to fund infrastructure projects. This strategic move not only ensures the availability of financial resources but also fosters collaboration between the government and private enterprises. With more construction projects getting underway through PPP initiatives, the Naphthalene and PCE-based admixtures market is poised for significant growth.

#### Surge in Technological Advancements

Technological advancements are playing a pivotal role in shaping the growth trajectory of Vietnam's Naphthalene and Polycarboxylate Ether (PCE) based admixtures market. As the country experiences robust growth in infrastructure and construction activities, the demand for technologically advanced, efficient, and environmentally-friendly construction materials is on the rise. MasterEase, an innovative admixture for low-viscosity concrete developed by BASF, is designed to assist customers in northern Vietnam in producing durable, high-quality concrete structures more efficiently and with greater ease. This next-generation polymer technology enhances the rheological properties of concrete while lowering its plastic viscosity by up to 30%. Additionally, it significantly reduces the time and effort required for pumping and placing concrete, streamlining the construction process and accelerating project completion.

In recent years, technological advancements have revolutionized the construction industry, leading to the development of innovative products like naphthalene and PCE-based admixtures. These admixtures enhance the properties of concrete, such as workability and durability, making them crucial for modern construction projects. Advancements in technology have led to the production of high-performance PCE superplasticizers, which are gaining preference over traditional Sulphonated Naphthalene Formaldehyde (SNF) water-reducing agents due to their superior performance in reducing water content and enhancing concrete strength.

#### Key Market Challenges

##### Growing Competition from Alternative Technologies

The construction industry is in a constant state of evolution, with new technologies and materials being introduced on a regular basis. These innovations aim to not only improve efficiency and reduce costs but also promote sustainability, ensuring a greener and more environmentally friendly approach to construction practices. One notable example of such innovation is the High Volume Mineral Admixture (HVMA) cement technology. This groundbreaking technology integrates Portland cement clinker, gypsum, mineral additives, and a special complex admixture, offering enhanced performance and durability in construction projects. As HVMA gains traction in the market, it poses a potential threat to the traditional Naphthalene and PCE based admixtures.

Another critical factor shaping the construction industry is the growing market for superplasticizers. These high-range water reducers, commonly used as admixtures in concrete, have gained significant popularity due to their ability to improve workability and strength of concrete mixes. As the demand for superplasticizers continues to rise, it can potentially impact the demand for Naphthalene and PCE based admixtures, prompting construction companies to reconsider their choice of admixtures.

While the Naphthalene and PCE based admixtures market in Vietnam shows promising signs of growth, it also faces challenges from the increasing competition posed by alternative technologies. To maintain its growth trajectory, the market must adapt to these changes by fostering innovation and improving efficiency. This can be achieved through research and development efforts, collaboration with industry experts, and embracing new technologies that offer improved performance, sustainability, and cost-effectiveness. By staying ahead of the curve and embracing change, the Naphthalene and PCE based admixtures market in

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Vietnam can continue to thrive amidst evolving industry trends.

#### Key Market Trends

##### Rising Demand for High-Performance Concrete

High-performance concrete is increasingly becoming a material of choice in the construction industry due to its superior properties. With its high strength, durability, and resistance to weathering, it has proven to be an ideal solution for various projects, including infrastructure development, commercial buildings, and residential construction. The growing demand for this type of concrete has sparked a corresponding increase in the market for Naphthalene and PCE-based admixtures, which play a crucial role in enhancing the performance of high-performance concrete.

Naphthalene and PCE-based admixtures are essential components used to modify the properties of concrete, resulting in improved workability and durability. By reducing the water content in the concrete mix, these admixtures contribute to increased strength and longevity. As a result, the rising demand for high-performance concrete directly influences the growth of the Naphthalene and PCE-based admixtures market.

#### Segmental Insights

##### Type Insights

Based on type, the polycarboxylate ether emerged as the fastest growing segment in the Vietnamese market for naphthalene and PCE based admixtures in 2023. The performance of polycarboxylate ether (PCE) is determined by factors such as the length and chemical nature of its side chains, as well as the length and chemical nature of its backbone. These unique properties make PCE-based admixtures highly efficient in reducing water content and enhancing the strength of concrete, surpassing other types of admixtures in terms of effectiveness. As a result, they are widely preferred in construction projects for their superior performance and exceptional versatility.

PCE-based admixtures find a wide range of applications in various industries. The increasing demand for naphthalene and PCE-based admixtures in laboratory applications is a testament to their versatility and effectiveness. Moreover, they are extensively utilized by end-users in sectors such as paints and coatings, textiles, and many others, further highlighting their significance and importance in diverse fields.

One of the most notable features of PCE-based admixtures is their environmentally-friendly nature. By contributing to the production of high-performance concrete with lower cement content, these admixtures play a crucial role in reducing carbon dioxide emissions during the cement manufacturing process. This not only benefits the environment but also aligns with sustainable practices in the construction industry, making PCE-based admixtures highly desirable for their eco-friendly properties and positive impact on the planet.

#### Application Insights

Based on application, the naphthalenesulfonic acids segment is projected to experience rapid growth during the forecast period. Naphthalenesulfonic acids, such as SNF, possess exceptional water-reducing capabilities. These remarkable compounds have the ability to reduce water content in concrete by 10-25%, while still maintaining optimal workability. This not only improves the strength and durability of the concrete but also enhances its overall performance. Consequently, naphthalenesulfonic acids are highly sought after for applications that demand high-performance concrete.

When compared to other types of admixtures, naphthalenesulfonic acids offer a cost-effective solution, making them an attractive choice for construction projects requiring large volumes of concrete. Their versatility and compatibility with various types of cement allow them to be utilized in a wide range of applications, further establishing their dominance in the market. The use of naphthalenesulfonic acids in concrete mixtures can result in a reduction in cement content, thus contributing to lower carbon dioxide emissions during the cement manufacturing process. This aligns perfectly with the global shift towards more sustainable construction practices. By incorporating these innovative compounds, construction projects can not only achieve superior performance but also contribute to a greener future.

#### Regional Insights

Based on region, Central emerged as the dominant region in the Vietnam Naphthalene and PCE based Admixtures Market in 2023, holding the largest market share in terms of value. In the central region of Vietnam, which encompasses bustling cities such as Da Nang and Hue, there is a remarkable surge in infrastructure development. The ongoing construction of buildings, roads, and various other essential infrastructure projects has created a pressing need for high-quality concrete. Consequently, there has

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been a significant increase in demand for Naphthalene and PCE-based admixtures, which play a crucial role in enhancing the strength and durability of the concrete used in these developments.

The central region is home to numerous industrial zones and ambitious projects. The rapid expansion of industries in this area has led to the construction of factories and other facilities. Once again, this expansion has fueled the demand for high-performance concrete, further driving the need for Naphthalene and PCE-based admixtures, which are instrumental in ensuring the long-lasting integrity of these industrial structures.

#### Key Market Players

□□ Sika Ltd.

□□ W.R. Grace Vietnam Co. Ltd.

□□ HS., Co. Ltd.

□□ HUD Vietnam (Chemicals) Co., Ltd.

□□ Mapei Vietnam Ltd.

#### Report Scope:

In this report, the Vietnam Naphthalene and PCE based Admixtures Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

□□ Vietnam Naphthalene and PCE based Admixtures Market, By Type:

o Polycarboxylate Ether

o Sulphonated Naphthalene Formaldehyde (SNF)

o Sulphonated Melamine Formaldehyde (SMF)

□□ Vietnam Naphthalene and PCE based Admixtures Market, By Application:

o Naphthalenesulfonic Acids

o Phthalic Anhydride

o Laboratory Uses

□□ Vietnam Naphthalene and PCE based Admixtures Market, By Region:

o Northern

o Central

o Southern

#### Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Vietnam Naphthalene and PCE based Admixtures Market.

#### Available Customizations:

Vietnam Naphthalene and PCE based Admixtures Market report with the given market data, TechSci 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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