

# **South America Corrosion Inhibitors Market, By Type (Water based, Oil/Solvent based, Vapour based), By Composition (Organic, Inorganic), By Application (Power Generation, Oil & Gas Refinery, Metalwork & Mining, Others), By Country and Competition, Forecast & Opportunities, 2018-2028F**

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## **Abstracts**

The South America Corrosion Inhibitors Market was valued at USD 773.24 Million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 0.57% through 2028. Corrosion inhibitors are chemical compounds or substances that play a crucial role in protecting various materials and structures from the destructive effects of corrosion. Corrosion, often referred to as the 'silent enemy,' is a natural electrochemical process that leads to the deterioration of metals and materials when exposed to harsh environmental conditions. Corrosion can have severe economic, safety, and environmental consequences, making corrosion inhibitors an indispensable tool in mitigating these risks.

One of the primary functions of corrosion inhibitors is to act as a protective barrier between the metal surface and the corrosive environment. They accomplish this through different mechanisms, depending on the type of inhibitor and the specific corrosion scenario. Some inhibitors work by forming a thin, impermeable film on the metal's surface, preventing the penetration of corrosive agents like oxygen or moisture. This film acts as a shield, hindering the electrochemical reactions responsible for corrosion. Other inhibitors function by altering the electrochemical conditions at the metal surface, making it less susceptible to corrosion. These combined factors contribute significantly to the anticipated growth of the South America Corrosion Inhibitors Market during the forecast period.

## Key Market Drivers

### Growing Demand of Corrosion Inhibitors in the Desalting Plant

Corrosion inhibitors are indispensable components in the operation of desalting plants, playing a critical role in ensuring the longevity, efficiency, and safety of these vital facilities. Desalting plants are key components of the oil and gas industry, primarily responsible for removing impurities, salts, and contaminants from crude oil and natural gas. These plants are essential to the production process, as untreated crude oil often contains elements that can cause corrosion, fouling, and damage to the equipment downstream. Therefore, the demand for corrosion inhibitors in desalting plants is substantial and continues to grow due to several key factors. First and foremost, the harsh operating conditions within desalting plants make corrosion a significant concern. These facilities are exposed to highly corrosive environments, as they handle saline water and crude oil with varying levels of acidity and contaminants. The combination of moisture, corrosive ions, and elevated temperatures creates an ideal breeding ground for corrosion. Corrosion can lead to equipment failure, leakage, and safety hazards, all of which can result in costly downtime and repairs. To mitigate these risks, corrosion inhibitors are employed to protect the integrity of the plant's equipment and infrastructure.

Moreover, the demand for energy and petroleum-based products continues to rise, driving an increase in oil and gas production. As a result, desalting plants operate at higher capacities and are subjected to more extensive and demanding processes. This heightened activity places additional stress on the equipment, making corrosion prevention even more critical. Corrosion inhibitors are instrumental in extending the service life of desalting plant equipment, reducing maintenance costs, and ensuring consistent production. Another key driver for the demand of corrosion inhibitors in desalting plants is the need for environmental compliance. As environmental regulations become stricter worldwide, oil and gas companies are under pressure to minimize the environmental impact of their operations. Corrosion inhibitors play a role in preventing leaks and spills caused by corrosion-related failures, which can lead to environmental contamination. By using effective corrosion inhibitors, companies can enhance their environmental stewardship and maintain a positive public image.

Furthermore, the advancement of corrosion inhibitor technology has led to the development of more efficient and environmentally friendly formulations. These inhibitors are designed to provide superior protection against corrosion while minimizing

their ecological footprint. With a growing emphasis on sustainable and green technologies, the demand for eco-friendly corrosion inhibitors is on the rise, particularly in industries like oil and gas that have historically had a significant environmental impact. In addition to protecting equipment and ensuring environmental compliance, corrosion inhibitors contribute to cost savings in desalting plant operations. Corrosion-related failures can lead to unplanned shutdowns, repairs, and replacement of equipment, all of which incur substantial expenses. Corrosion inhibitors help prevent these costly incidents, allowing desalting plants to operate more efficiently and profitably. Additionally, by extending the lifespan of equipment, corrosion inhibitors reduce the need for frequent capital investments in new machinery. The selection of the right corrosion inhibitor is crucial in achieving optimal performance in desalting plants. Various factors, including the type of crude oil being processed, the specific operating conditions, and the materials of construction, must be considered when choosing an inhibitor. Additionally, the inhibitor must be compatible with other chemicals and additives used in the desalting process. Overall, the demand for corrosion inhibitors in desalting plants is driven by the need to protect equipment, ensure environmental compliance, enhance operational efficiency, and reduce maintenance costs.

### Increasing Demand for Corrosion Inhibitors in the Chemical Processing

Corrosion inhibitors are pivotal assets in the realm of chemical processing, serving as guardians of equipment integrity, safety, and operational efficiency. The chemical processing industry is a diverse and expansive sector encompassing a wide range of operations, from petrochemical refineries to pharmaceutical manufacturing plants. In each of these settings, the management of corrosion is an imperative concern. Corrosion, a natural electrochemical process that leads to the deterioration of metals and materials, can have dire consequences in chemical processing environments. It can compromise the structural integrity of equipment, impair product quality, pose safety risks, and result in costly downtime and maintenance. One of the primary drivers behind the demand for corrosion inhibitors in chemical processing is the need to safeguard critical infrastructure and assets. Chemical processing plants are replete with complex systems and equipment constructed from various metals and alloys, all of which are susceptible to corrosion when exposed to the corrosive chemicals and harsh operating conditions prevalent in the industry. Corrosion inhibitors function as protective shields, forming a barrier between the metal surface and the corrosive agents, thereby preventing, or significantly reducing the corrosion rate. This protection extends the service life of equipment, reduces the risk of leaks and failures, and ultimately enhances the reliability of chemical processing operations.

Moreover, the chemical processing industry is characterized by stringent safety and environmental regulations. The release of hazardous materials due to corrosion-related failures can have severe consequences, including harm to personnel, environmental contamination, and legal liabilities. Corrosion inhibitors play a pivotal role in preventing accidents and spills by preserving the integrity of storage tanks, pipelines, and process vessels. They are a fundamental component of safety measures aimed at protecting both people and the environment. Another significant factor contributing to the demand for corrosion inhibitors in chemical processing is the pursuit of operational efficiency. Corrosion-related issues, such as the accumulation of scale and deposits on equipment surfaces, can impede the efficiency of processes. These issues can lead to reduced heat transfer rates, increased energy consumption, and decreased overall productivity. By employing corrosion inhibitors, chemical processing plants can maintain equipment surfaces in a clean and corrosion-free condition, thus optimizing heat exchanger performance, reducing energy costs, and ensuring consistent product quality.

Furthermore, the chemical processing industry is experiencing growth and diversification, resulting in the expansion of operations and an increased demand for corrosion protection solutions. As new chemical processes and technologies are developed, and as the industry explores novel raw materials and production methods, the range of corrosive substances and operating conditions becomes more varied and challenging. This evolving landscape necessitates the continuous development and adaptation of corrosion inhibitors to address the specific needs of diverse chemical processing applications. Corrosion inhibitors are also integral to the maintenance of product quality in the chemical processing sector. Contaminants or byproducts resulting from corrosion can lead to impurities in the final product, compromising its quality and purity. In industries like pharmaceuticals, where product quality and consistency are paramount, the prevention of corrosion-related contamination is crucial. Corrosion inhibitors ensure that equipment surfaces remain clean and free from corrosion-related impurities, thereby upholding product quality standards.

Moreover, the chemical processing industry has led to the establishment of facilities in various regions with different environmental conditions. These variations can affect the corrosion rates of metals and materials. Corrosion inhibitors must be tailored to specific environmental conditions to provide effective protection. As chemical processing operations expand globally, the demand for corrosion inhibitors that can adapt to diverse climates and environments increases. Furthermore, the chemical processing industry has witnessed advancements in materials science and technology, resulting in the utilization of new materials and alloys. These materials may have different corrosion characteristics compared to traditional metals. Corrosion inhibitors need to be adapted

and optimized for compatibility with these emerging materials to ensure comprehensive protection across the spectrum of materials used in chemical processing. Consequently, the numerous advantages of corrosion inhibitors are expected to fuel the demand for the South America Corrosion Inhibitors Market in the forecast period.

### Rising Demand for Corrosion Inhibitors in the Pulp & Paper Sectors

Corrosion inhibitors play a pivotal role in the Paper and Pulp sector, safeguarding critical infrastructure and machinery in an industry known for its harsh and corrosive operating conditions. The Paper and Pulp sector is a cornerstone of various manufacturing processes, including paper production, cardboard manufacturing, and tissue paper processing. These operations involve the use of aggressive chemicals, high temperatures, and moisture, all of which can accelerate the corrosion of equipment and machinery, leading to costly downtime, maintenance, and compromised product quality. One of the primary drivers behind the demand for corrosion inhibitors in the Paper and Pulp sector is the need to protect vital equipment and ensure uninterrupted production. This industry relies heavily on a wide range of machinery, including digesters, refiners, boilers, and papermaking machines, all of which are exposed to the corrosive effects of chemicals and moisture. Corrosion can lead to equipment failure, leaks, and reduced efficiency, which can have a substantial impact on production schedules and output. Corrosion inhibitors create a protective barrier on the surfaces of equipment, shielding them from corrosive agents and prolonging their service life. This protection ensures the continued and reliable operation of machinery, contributing to enhanced productivity and minimized disruptions.

Moreover, the Paper and Pulp industry is subject to stringent quality and environmental regulations. The release of corrosion byproducts or impurities resulting from equipment corrosion can lead to contamination of paper and pulp products, jeopardizing their quality and purity. Corrosion inhibitors are instrumental in maintaining the cleanliness of equipment surfaces, preventing the formation of corrosion-related contaminants, and upholding product quality standards. In an industry where product quality is paramount, corrosion inhibitors are indispensable tools for preserving the integrity of final paper and pulp products. Additionally, the paper and pulp sector is increasingly focused on sustainability and environmental responsibility. The industry has made significant strides in adopting eco-friendly practices and reducing its environmental footprint. Corrosion inhibitors contribute to these efforts by extending the lifespan of equipment and machinery, reducing the need for frequent replacements, and minimizing waste. Furthermore, the development of environmentally friendly corrosion inhibitors that meet regulatory standards for biodegradability and toxicity is gaining traction. This aligns with

the sector's commitment to environmentally responsible manufacturing. Consequently, these factors are poised to exert a significant influence on the growth of the South America Corrosion Inhibitors Market in the forecast period.

## Key Market Challenges

### Harsh Environmental Conditions

South America's diverse geography encompasses everything from coastal regions with high humidity to arid inland areas. These varying environmental conditions expose infrastructure and industrial equipment to a wide range of corrosion threats. Corrosion inhibitors must be tailored to withstand these diverse climates and effectively protect assets.

Moreover, many countries in South America have aging infrastructure, including pipelines, bridges, and storage tanks. Aging infrastructure is more susceptible to corrosion, necessitating advanced corrosion inhibitors to extend the life of these critical assets. Retrofitting corrosion protection solutions can be complex and costly.

### Regulatory Compliance

South American countries often have stringent environmental regulations that require industries to use environmentally friendly corrosion inhibitors. Compliance with these regulations can be challenging for manufacturers and end-users. Finding a balance between effective corrosion protection and environmental responsibility is an ongoing challenge.

Moreover, the oil and gas industry in South America faces numerous challenges, including operational issues, political instability, and fluctuating oil prices. Corrosion in pipelines and drilling equipment remains a significant concern. Developing and maintaining effective corrosion prevention strategies in this sector is vital for safety and operational efficiency.

Furthermore, economic instability in some South American countries can impact industrial investments and maintenance budgets. This can lead to delays in corrosion prevention projects or the use of lower-cost, less effective corrosion inhibitors. Maintaining asset integrity during economic downturns is a persistent challenge.

## Key Market Trends



## Growing Industrialization and Infrastructure Development

South America is witnessing rapid industrialization and infrastructure development, with countries like Brazil, Argentina, and Chile leading the way. This growth is driving the demand for corrosion inhibitors across various sectors, including oil and gas, construction, automotive, and marine. Corrosion prevention is essential to protect critical infrastructure and ensure the longevity of industrial equipment.

Moreover, corrosion inhibitors are finding applications across various industries. For example, the same corrosion inhibitor formulation used in the oil and gas sector may also find applications in the marine industry or power generation. This versatility is driving collaboration and knowledge sharing among industries, leading to the adoption of proven corrosion prevention solutions.

## Focus on Sustainable Solutions

Environmental awareness and sustainability have become central themes in South America's corrosion inhibitors market. Industries are increasingly seeking eco-friendly and biodegradable corrosion inhibitors to align with stringent environmental regulations. Manufacturers are responding by developing green corrosion inhibitor formulations that are both effective and environmentally responsible.

Furthermore, to meet the evolving demands of South America's industries, corrosion inhibitor manufacturers are investing heavily in research and development. This investment is leading to the development of innovative corrosion prevention technologies and formulations that offer longer-lasting protection and enhanced performance.

## Segmental Insights

### Type Insights

Based on the type, the water based segment is expected to register the highest growth of 0.67% during the forecast period 2024-2028. Water-based corrosion inhibitors are the favored option in many sectors due to their wide range of benefits. In comparison to their solvent-based predecessors, their ecologically benign nature causes less harm to ecosystems and human health. By lowering the emission of volatile organic compounds (VOCs), water-based inhibitors also comply with strict environmental laws. Their low

toxicity and lack of flammability improve worker security, significantly reducing the danger of accidents.

Additionally, water-based formulations are adaptable and simple to mix and apply, increasing the cost-effectiveness and practicality of industrial operations. Additionally, they excel at preventing corrosion by creating a strong barrier of protection on metal surfaces, resulting in longer equipment lifespan and lower maintenance costs. Systems exposed to water are particularly suited for water-based corrosion inhibitors, such as pipes and cooling systems, helping to spread ethical and sustainable corrosion control techniques. These inhibitors effectively combine corrosion protection with environmental responsibility, making them important assets in a variety of sectors.

### Composition Insights

Based on the composition, the organic segment is expected to register the highest growth of 0.63% during the forecast period 2024-2028. The many benefits that organic-type corrosion inhibitors provide make them indispensable in the continuous fight against corrosion. First off, their ecologically favorable qualities, which are frequently characterized by biodegradability and less toxicity when compared to other inhibitor kinds, are perfectly in line with the increasing emphasis on sustainability and eco-friendly practices in a variety of sectors. Organic inhibitors are appropriate for a wide range of applications, from industrial processes to the marine and automotive industries, thanks to their amazing adaptability and compatibility with a wide range of materials and systems. Their ability to form a protective layer on metal surfaces is crucial in lowering corrosion rates, which ultimately increases the lifespan of important machinery and buildings.

Furthermore, organic inhibitors are recognized for their capacity to offer long-lasting protection, which reduces the need for regular reapplication and, as a result, lowers maintenance expenses. Additionally, they exhibit efficiency throughout a wide pH range and temperature range, guaranteeing dependable corrosion prevention even under a variety of difficult environmental situations. As a result, organic-type corrosion inhibitors effortlessly combine efficiency, environmental sensitivity, and adaptability, making them the go-to option for businesses looking for efficient and long-lasting corrosion control solutions.

### Application Insights

Based on the application, the oil & gas refinery segment is expected to register the



largest growth of 0.81% during the forecast period, 2024-2028. In the oil and gas refinery sector, where the continual fight against corrosion poses a significant and persistent problem, corrosion inhibitors play a crucial and enduring role. The equipment and pipes in refineries, which are complex and demanding settings by nature, are subjected to a variety of extreme conditions, including aggressive chemicals, high temperatures, and moisture levels. These circumstances can speed up corrosion, which poses serious concerns. Both organic and inorganic corrosion inhibitors are added to the refining process to combat this powerful foe. Their main purpose is to coat metal surfaces with protective coatings that effectively serve as barriers against the damaging effects of corrosive substances. These inhibitors are essential for preventing internal corrosion in pipelines, which is a problem made worse by the corrosive properties of hydrocarbons and the presence of water. Corrosion inhibitors are essential for avoiding the degradation of tank walls and bottoms in the field of storage tanks. By doing this, they protect priceless assets while lowering the possibility of leaks or accidents. Additionally, these inhibitors help to extend the operational lifespan of crucial refining machinery like heat exchangers and distillation columns, lowering maintenance costs and downtime. The use of corrosion inhibitors continues to be a crucial procedure in the oil and gas sector as it continues to change and develop. These inhibitors are necessary to guarantee the sustainability, effectiveness, and safety of the process.

## Country Insights

Brazil will witness fastest growth during the forecast period, 2024-2028. The demand for corrosion inhibitors in Brazil is on the rise, driven by the country's vast industrial landscape and the need to protect critical infrastructure from the corrosive effects of the tropical climate and various industrial processes. Brazil is home to a thriving oil and gas sector, and the corrosion of pipelines and equipment poses a significant challenge. Corrosion inhibitors are essential in this industry to prevent pipeline failures and ensure the safety and reliability of oil and gas operations. Additionally, Brazil's maritime industry relies heavily on corrosion inhibitors to protect ships, offshore platforms, and port facilities from the corrosive effects of saltwater. The country's booming mining sector, which extracts valuable minerals, faces the challenge of protecting equipment and facilities from the corrosive chemicals used in the extraction process. Furthermore, Brazil's infrastructure, including bridges, power plants, and storage tanks, requires robust corrosion prevention solutions to extend their lifespan and reduce maintenance costs. As industries in Brazil continue to expand, the demand for corrosion inhibitors will persist, making it a vital component of asset protection and safety measures in the country. Meeting this demand will require innovative corrosion inhibitor technologies tailored to the specific challenges posed by Brazil's diverse industrial landscape and

environmental conditions.

### Key Market Players

Henkel Ib rica, S.A.

Nouryon Chemicals Argentina SAU

Eastman Chemical do Brasil Ltda.

Lanxess Industry Chemicals and Plastics

Clariant S.A.

### Report Scope:

In this report, the South America Corrosion Inhibitors Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### South America Corrosion Inhibitors Market, By Type:

Water based

Oil/Solvent based

Vapour based

#### South America Corrosion Inhibitors Market, By Composition:

Organic

Inorganic

#### South America Corrosion Inhibitors Market, By Application:

Power Generation

Oil & Gas Refinery

Metalwork & Mining

Others

South America Corrosion Inhibitors Market, By Country:

Brazil

Argentina

Colombia

Bolivia

Chile

Ecuador

Paraguay

Peru

Uruguay

Venezuela

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the South America Corrosion Inhibitors Market.

Available Customizations:

The South America Corrosion Inhibitors 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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