

# **Metal Scavenging Agents Market Size and Forecast (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Alumina-Based, Carbon-Based, Silica-Based, Resin-Based, and Others) and End-Use Industry (Water Treatment, Food & Beverages, Pharmaceutical, Oil & Gas, Chemicals, Paper & Pulp, and Others)**

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## **Abstracts**

The metal scavenging agents market size was valued at US\$ 14.04 billion in 2022 and is expected to reach US\$ 23.50 billion by 2030; it is estimated to register a CAGR of 6.7% from 2022 to 2030.

Metal scavenging agents are substances designed to selectively bind and remove metal ions from solutions or matrices. They are used in various industrial processes such as wastewater treatment, metal recovery, and chemical purification. The agents typically contain functional groups that have a high affinity for specific metal ions, allowing them to form complexes and facilitate their removal through precipitation, adsorption, or other separation methods. Examples of metal scavenging agents are chelating agents such as EDTA (ethylenediaminetetraacetic acid), DTPA (diethylenetriaminepentaacetic acid), and NTA (nitrilotriacetic acid); ion exchange resins; activated carbon; and various polymers. The global metal scavenging agents market size is likely to upsurge by 2030 owing to the increasing investments in water treatment plants.

The growing utilization of metal scavenging agents in the pharmaceutical industry contributes significantly to the metal scavenging agents market growth. In the industry, the agents play a crucial role in ensuring the efficacy, safety, and stability of pharmaceutical products. Copper, zinc, iron, and other metal ions can accelerate

oxidation, hydrolysis, and other chemical reactions in drug formulations, leading to decreased potency, changes in physical appearance, and the formation of toxic byproducts. The primary application of metal scavenging agents in the industry is in the formulation of parenteral drugs such as injectables and intravenous solutions. These formulations are susceptible to metal-catalyzed oxidation, which can lead to degradation of active pharmaceutical ingredients (APIs) and lead to the formation of potentially harmful impurities. Metal scavengers are added to parenteral formulations to chelate metal ions present in water, excipients, and packaging materials, thereby preventing oxidative degradation and ensuring the stability of the drug product throughout its shelf life.

Based on type, the market is segmented into alumina-based, carbon-based, silica-based, resin-based, and others. The alumina-based segment accounts for the significant metal scavenging agents market share. Alumina-based metal scavenging agents are crucial components in various industrial processes, particularly in industries such as pharmaceuticals, water treatment, and environmental remediation. Alumina, typically in the form of aluminum oxide ( $Al_2O_3$ ), possesses a high surface area and a strong affinity for metal ions due to its amphoteric nature. The agents are adept at chelating or binding metal ions through surface complexation, ion exchange, and chemisorption mechanisms. In water treatment, alumina-based metal scavenging agents are utilized to remove heavy metals such as arsenic, lead, and chromium from contaminated water sources, thus safeguarding public health.

In 2022, Asia Pacific held a significant metal scavenging agents market share. The region has been noticed as one of the prominent markets for the utilization of metal scavenging agents owing to the growing chemical and oil & gas sectors and rising urbanization leading to increasing demand for water treatment. Moreover, government initiatives and policies such as Make-in-India encourage the setup of different manufacturing plants in India. The increase in foreign direct investments also leads to regional economic growth, boosting industrialization. The chemical manufacturing industry is integral to the manufactured exports for several Asian nations, including China, India, South Korea, and Japan.

Biotage, Johnson Matthey, SupraSciences, SiliCycle Inc., Sigma-Aldrich, Fuji Silysia, PhosphonicS, Vizag Chemicals, Biosynth, and BASF SE are among the prominent players profiled in the metal scavenging agents market report. In addition, several other players have been studied and analyzed during the study to get a holistic view of the market and its ecosystem. The metal scavenging agents market report also includes company positioning and concentration to evaluate the performance of

competitors/players in the market.

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The overall global metal scavenging agents market size has been derived using both primary and secondary sources. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. Participants in this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders specializing in the metal scavenging agents market.

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