

Middle East & Africa Metal Scavenging Agents Market Forecast to 2030 - Regional Analysis - 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

Middle East & Africa metal scavenging agents market was valued at US\$ 1,192.97 million in 2022 and is expected to reach US\$ 1,800.75 million by 2030; it is estimated to register a CAGR of 5.3% from 2022 to 2030.

Technological Advancements Bolster Middle East & Africa Metal Scavenging Agents Market

Ongoing research and development efforts in the field of metal scavenging technologies are driving the emergence of advanced solutions poised to revolutionize metal removal processes. Innovations such as nanomaterial-based adsorbents, functionalized membranes, and hybrid sorbent systems can represent promising avenues for achieving higher efficiency, selectivity, and sustainability in metal scavenging applications. Nanomaterial-based adsorbents leverage the unique properties of nanomaterials such as high surface area, tunable surface chemistry, and enhanced reactivity to efficiently capture and remove heavy metal ions from aqueous solutions. Nanostructured materials such as nanoparticles, nanotubes, and nanofibers offer superior adsorption capacities and kinetics compared to conventional adsorbents, enabling more effective metal removal and wastewater treatment.

Functionalized membranes incorporate surface or coating modifications to impart

specific metal-binding functionalities, enhancing their affinity and selectivity toward target metal ions. By integrating metal-chelating ligands or functional groups onto membrane surfaces, functionalized membranes can selectively capture and concentrate metal contaminants while allowing for efficient water permeation, enabling the development of membrane-based metal scavenging systems with improved performance and reliability.

Hybrid sorbent systems combine multiple metal scavenging mechanisms such as adsorption, ion exchange, and precipitation into integrated platforms to synergistically enhance metal removal efficiency and capacity. By leveraging the complementary advantages of different sorbent materials and mechanisms, hybrid systems can overcome the limitations of individual techniques and achieve superior metal removal performance under diverse operating conditions, offering enhanced versatility and flexibility in metal scavenging applications. The advanced metal scavenging technologies hold significant promise for addressing challenges associated with heavy metal pollution in various industrial and environmental contexts. By offering higher performance, cost-effectiveness, and sustainability compared to traditional metal removal methods, these innovations are poised to revolutionize metal scavenging processes and contribute to the development of more efficient and environmentally friendly solutions for metal pollution control and remediation. Thus, the growing technological advancements and research and development on metal scavenging agents such as nanomaterial based metal scavenging agents, functionalized membranes, and hybrid sorbent system, would further drive the market in future.

Middle East & Africa Metal Scavenging Agents Market Overview

The Rest of Middle East & Africa comprises countries such as Egypt, Nigeria, Oman, Qatar, Kuwait, Iran, Turkey, and Kenya. The demand for metal scavenging agents in the Rest of Middle East & Africa is driven by the increasing use of metal scavenging agents in the region's pharmaceutical, chemical, and oil & gas sectors. Countries such as Qatar are the largest global liquefied natural gas (LNG) exporter. According to the International Trade Organization, Qatar's crude oil production was at ~ 1,300,000 barrels per day, making Qatar one of the top 15 oil exporting countries. Thus, dominating oil & gas-producing countries is expected to boost the metal scavenging agents market growth in the Rest of the Middle East & Africa.

Middle East & Africa Metal Scavenging Agents Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Metal Scavenging Agents Market Segmentation

The Middle East & Africa metal scavenging agents market is categorized into type, end-use industry, and country.

By type, the Middle East & Africa metal scavenging agents market is segmented into alumina-based, carbon-based, silica-based, resin-based, and others. The others segment held the largest share of the Middle East & Africa metal scavenging agents market share in 2022.

In terms of end-use industry, the Middle East & Africa metal scavenging agents market is segmented into water treatment, food & beverages, pharmaceutical, oil & gas, chemicals, paper & pulp, and others. The paper & pulp segment held the largest share of the Middle East & Africa metal scavenging agents market share in 2022.

Based on country, the Middle East & Africa metal scavenging agents market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. The Rest of Middle East & Africa segment held the largest share of Middle East & Africa metal scavenging agents market in 2022.

BASF SE, Biosynth AG, Biotage AB, Johnson Matthey Plc, Merck KGaA, SiliCycle Inc, and Supra Sciences Pvt Ltd are some of the leading companies operating in the Middle East & Africa metal scavenging agents market.

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