

Middle East & Africa Mining Explosives Market Forecast to 2030 - Regional Analysis - by Type [Trinitrotoluene (TNT), ANFO, RDX, Pentaerythritol Tetranitrate (PETN), and Others] and Application (Quarrying and Non-Metal Mining, Metal Mining, and Coal Mining)

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Abstracts

The Middle East & Africa mining explosives market was valued at US\$ 769.06 million in 2023 and is expected to reach US\$ 1,010.65 million by 2030; it is estimated to grow at a CAGR of 4.0% from 2023 to 2030.

Increasing Utilization of Pentaerythritol Tetranitrate (PETN) Fuels the Middle East & Africa Mining Explosives Market

Pentaerythritol Tetranitrate (PETN) is a high-performance explosive widely used in various industries, including mining. Efficient fragmentation of rock formation is essential in mining to maximize ore or mineral recovery and minimize waste. PETN is known for its high explosive power and sensitivity, making it effective for blasting and fragmenting hard rock formation. It generates a rapid release of energy upon detonation, resulting in efficient fragmentation and excavation of mineral deposits during mining operations. PETN can be manufactured in various forms, including granules, prills, and castings, allowing flexibility and customization to meet specific mining requirements. Different formulation grain sizes can be tailored to match the geological conditions, rock properties, and desired blasting outcomes in different mining operations.

Further, PETN has favorable safety characteristics compared to some other high explosives. It has a relatively low sensitivity to shock and friction, reducing the risk of accidental detonations during handling, transportation, and storage. The inherent stability of PETN makes it a preferred choice for mining operations where safety is paramount. In addition, PETN is considered to have a lower environmental impact than

other explosives. It has a relatively low level of toxic emissions and a reduced carbon footprint during production and use. The mining industry is increasingly focused on sustainable practices and minimizing environmental impact. Due to all these factors, demand for PETN is expected to increase, which would boost the Middle East & Africa mining explosives market growth in the coming years.

Middle East & Africa Mining Explosives Market Overview

The report published by the Minerals Council South Africa in 2022 revealed that the mining production in South Africa was valued at US\$ 57 billion in 2021 and reached US\$ 61 billion in 2022. Further, in South Africa, mining exports accounted for US\$ 46.3 billion, or 24% of the country's international trade in 2022. The total sales of iron ore in South Africa accounted for US\$ 5.4 billion in 2022, representing a rise of 47.3% as compared to 2019. In addition, according to the International Trade Administration, Saudi Arabia's untapped mineral reserves accounted for US\$ 1.3 trillion in 2021. Further, the World Mining Data 2022 report by the Federal Ministry Republic of Austria revealed that Africa accounted for 889,634,740 metric tons of mineral production (excluding bauxite). The mining production rate of minerals in Africa increased by 16.2% from 2000 to 2020. Mining of metals and nonmetals require explosives and blasting agents through cast blast, fragmentation blast, and quarry blasts. Thus, the rise in mining production rates for minerals, metals, and nonmetals in the Middle East & Africa is expected to boost the demand for mining explosives during the forecast period.

Middle East & Africa Mining Explosives Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Mining Explosives Market Segmentation

The Middle East & Africa mining explosives market is segmented based on type, application, and country.

Based on type, the Middle East & Africa mining explosives market is categorized into trinitrotoluene (TNT), ANFO, RDX, pentaerythritol tetranitrate (PETN), others. The ANFO segment held the largest share in 2023.

By application, the Middle East & Africa Mining Explosives market is segmented into quarrying and non-metal mining, metal mining, and coal mining. The metal mining segment held the largest share in 2023.

Based on country, the Middle East & Africa Mining Explosives market is segmented into the South Africa, Zimbabwe, Nigeria, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. The Middle East & Africa dominated the Middle East & Africa mining explosives market in 2023.

Orica Limited, Al Fajar Al Alamia Co, Hanwha Group, Solar Industries India Ltd, Omnia Holding Ltd, and Sasol Ltd are some of the leading companies operating in the Middle East & Africa mining explosives market.

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