Research Department Explosive (RDX) Market To Hit USD 13.92 Billion By Value at Exponential CAGR of 3.4% Through 2030

Research Department Explosive (RDX) Market by Type, Application, and Sales Channel : Global Opportunity Analysis and Industry Forecast, 2021-2030.

WILMINGTON, DE, UNITED STATES, October 23, 2025 /EINPresswire.com/ -- The global research department explosive (RDX) industry was valued at $9.83 billion in 2020, and is projected to reach $13.92 billion by 2030, registering a CAGR of 3.4% from 2021 to 2030.

Demand for RDX is expected to be significantly high in the non-military applications such as mining, oil & gas exploration, demolition, and avalanche control, which is likely to notably contribute toward the growth of the global market. Asia-Pacific accounted for the largest share of the global RDX market in 2020, owing to rise in demand for RDX in military and civilian applications. Furthermore, the market growth in Europe and North America is being driven by increase in defense expenditure and rise in mining activities across these regions. RDX is widely used in the construction and mining industries, as these industries require high-performance explosives for rock excavation and exploration activities.

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Increased mining activities and rising expenditure on defense & military applications drive the growth of the Research Department Explosive (RDX) market. On the other hand, stringent regulatory frameworks and availability of alternate methods for mining & blasting restrain the growth to some extent. However, surge in demand for RDX in military operations and innovation & development toward offering advanced products are expected to create lucrative opportunities in the segment.

Explosive is any substance or device that produces a massive volume of rapidly expanding gas in an extremely brief period. RDX, also known as hexogen, or cyclotrimethylenetrinitramine, or cyclonite. is a nitramine explosive compound that can be utilized as a propellant, gunpowder, or high explosive, depending on the initiation type such as remotely operated or when introduced to fire. RDX can either be used with other explosives, such as trinitrotoluene, to develop cyclotols, which produce bursting charges for mines, torpedoes, and aerial bombs, or it can be employed as a base charge for detonators.

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Factors such as increase in mining activities and rise in spending on defense & military applications significantly contribute toward the growth of the global RDX market during he forecast period. However, stringent regulatory frameworks pertaining to the use of RDX and availability of alternate methods for mining & blasting act as the key deterrent factors of the market. On the contrary, the demand for RDX in military operations and innovation & development toward offering advanced products are expected to creates ample opportunities for the growth of the market during the forecast period.

The global RDX market is segmented into type, application, sales channel, and region. By type, the market is categorized into explosives, pyrotechnics, and others. The applications covered in the study include military and civilian. Depending on sales channel, the market is fragmented into domestics and international. Region wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA.

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Key players in the industry-

BAE Systems
Chemring Group PLC.
Dyno Nobel
EPC Groupe
Austin Powder Company
Eurenco
Mil-Spec Industries Corporation
Orica Limited
PRVA ISKRA – NAMENSKA A.D.
Nitro-Chem SA.

COVID-19 Scenario of RDX Market -

There was a huge disruption in the supply chain in the chemicals & materials industry along with falling business confidence, especially during the initial phase, which in turn impacted the global Research Department Explosive (RDX) market size negatively.
However, as the global situation is getting better, the market is anticipated to revive soon.

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