

Research Department Explosive (RDX) Market to Reach \$13.92 Bn, Globally, by 2030 at 3.4% CAGR

Increased mining activities and rising expenditure on defense & military applications drive the growth of the Research Department Explosive (RDX) market.

WILMINGTON, DE, UNITED STATES, July 22, 2025 /EINPresswire.com/ -- [Research Department Explosive \(RDX\) market size](#) was estimated at \$9.83 billion in 2020 and is expected to hit \$13.92 billion by 2030, registering a CAGR of 3.4% from 2021 to 2030.



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.

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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.

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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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.

By region, the market across Asia-Pacific, followed by North America, dominated in 2020, garnering more than two-fifths of the global Research Department Explosive (RDX) market, due to the presence of countries which are inclined toward increasing their annual defense budget quite frequently. Simultaneously, the LAMEA region is expected to cite the fastest CAGR of 4.6% throughout the forecast period. Increased infrastructural developments in the province fuels the market growth.

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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 industry](#) during the 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 create ample opportunities for the growth of the market during the forecast period.

Key players in the industry-

BAE Systems
Chemring Group PLC.
Dyno Nobel
EPC Groupe
Austin Powder Company
Eurencor

Mil-Spec Industries Corporation
Orica Limited
PRVA ISKRA – NAMENSKA A.D.
Nitro-Chem SA.

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