

Global Sand & Gravel Market Outlook to 2027

<https://marketpublishers.com/r/G364D531C1F0EN.html>

Date: February 2022

Pages: 165

Price: US\$ 4,490.00 (Single User License)

ID: G364D531C1F0EN

Abstracts

Sand is a granular material made up of particles ranging in size from 0.075mm to 4.75mm formed by the weathering of rocks. Sand particles are slightly larger than a slit, not as large as gravel. Gravel is a granular material created by the erosion of stones ranging from 4.75mm to 75mm in diameter. Gravel particles are slightly larger than sand but not as massive as boulders. According to BlueQuark Research & Consulting, the global Sand & Gravel market is expected to witness a significant growth rate during the forecasted period. Sand and Gravel are used in road construction, asphalt mixing, construction fill, and building materials such as concrete blocks, bricks, and pipes are expected to drive the Global Sand & Gravel Market. Further, in the glass industry, Sand is vital for flat glass because the primary source of silicon dioxide required for glass production is projected to drive the Global Sand & Gravel Market. Furthermore, Foundry sand is a homogenous silica sand of excellent quality used to build molds and cores for ferrous and nonferrous metal castings is expected to drive the Global Sand & Gravel Market. However, Rivers are degraded due to excessive instream sand and gravel mining. Instream mining lowers the streambed causes bank erosion. The loss of sand in streambeds and along coastlines causes rivers and estuaries to deepen and the enlargement of river mouths and coastal inlets, which is expected to hinder the future market growth of Sand & Gravel.

Sand & Gravel is used in road construction, asphalt mixing, construction fill, and building materials such as concrete blocks, bricks, and pipes. Glass products are manufactured with high-quality silica sand can meet the optimal vision requirements for vehicles windshields. It is used in foundry for metal casting. It is also used to make roofing shingles, used on icy roads in the winter, for railroad ballast, and water filtration. Sand & Gravel abrasive materials are used for various applications, including grinding, sharpening, sandblasting, and polishing.

The Construction Industry is the most primary and vital consumer of Sand & gravel and

is estimated to drive the global demand for Sand & Gravel. The Sand & Gravel is used for its robust physical properties, and they are crushed and sorted into various sizes for its uses in concrete, coated with bitumen to make asphalt, or used dry as bulk fills in construction. It is mainly used in roads, concrete, and building products, driving the Sand & Gravel Market demand. According to U.S. Geological Survey, in 2020, 960 million tonnes of construction sand and gravel valued at USD 9.2 billion was produced by an estimated 3,870 companies operating 6,800 pits and 340 sales and distribution yards in 50 states. About 46% of construction sand and gravel was used as portland cement concrete aggregates, 21% for road base and coverings and road stabilization, 13% for construction fill, 12% for asphaltic concrete, 4% for other uses. Sand & Gravel aggregates are used in mixing cement materials such as concrete, mortar, and plaster to make gravel roads and driveways, particularly in rural areas, projected to drive the demand for Sand & Gravel in the segment. Sand & Gravel are used to resisting weather or their beautiful appeal. Stone walls and decorative purposes on building, fences, and paving slabs are projected to drive the Sand & Gravel market demand. Thus all the above factors have made the Construction Sector a vital segment of growth for the Global market of Sand & Gravel.

The Asia Pacific region is on its way to becoming the global leader in the production and consumption of Sand & Gravel, with most of the consumption in populated countries like China and India. Sand and Gravel is a massive industry that caters to the growing needs of cities, and construction projects from residential, commercial, and municipal construction to road paving and private driveways are driving the global Sand & Gravel market. Demands for the glass industry are increasing, and industrial sands are used for making glass that meets the extremely high chemical and physical requirements of the glass industry are witnessing strong growth rates in the Global Sand & Gravel Market. Due to increasing urbanization, foundry sand consists of high-quality silica sand, bentonite clay used as the binder, water, and coal is used as a carbonaceous mold additive to improve casting finish, driving the demand for Global Sand & Gravel Industry. In water treatment, sand and gravel have been utilized in the filters. Single-pass filters are often made of sand, allowing effluent to flow slowly through it. Gravel is most commonly used in recirculating filters, which can handle more affluent than single-pass sand filters, thus driving the Global Sand & Gravel Industry. Sand and Gravel abrasives materials are composed of sub-angular, hard, durable, and dense grains of siliceous materials that are applicable for the removal of heavy rust, epoxy paints, mill scale rust, paint from steel surfaces, and gauge materials, driving the Global Sand & Gravel in the market. Thus, mentioned factors have made the Asia Pacific region a vital area for the development of Sand & Gravel.

Some of the market's key players are Wolff & Muller, Aggregate Industries, Minerali Industriali S.r.l., Edgar Minerals, Inc, Holliston Sand Co Inc, among others.

In October 2021, Ocean pump developed an 8-inch gravel sand pump dredge machine for Ghana customers to extract sand from rivers, lakes, ponds, or sea, equipped with a high-pressure water pump and powerful sand pump.

Global Sand & Gravel Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Sand & Gravel market by segmenting based on the By Type (Coarse Crushed Limestone Gravel, Pit or Coarse Sand, Crushed Clean Stone, Fine Limestone Gravel, River Sand, Others), By Application (Construction, Glass, Foundry, Water Treatment, Abrasive, Others) and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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