

Market Analysis: Calcined Anthracite Market, Metamaterial Market and Putty Powder Market forecasted for 2023-2030

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SEATTLE, WASHINGTON, USA, July 1, 2023 /EINPresswire.com/ -- The Calcined Anthracite Market is expected to grow from USD 517.00 Million in 2022 to USD 722.60 Million by 2030, at a CAGR of 4.90% during the forecast period. The Calcined Anthracite market has been growing steadily over the years and is expected to continue this trend in the coming years. Calcined Anthracite is a high-quality carbon material produced from high-grade Anthracite, which is used in various industries such as steel manufacturing, ferroalloy production, aluminum smelting, and others. One of the major factors driving revenue growth of the Calcined Anthracite market is the increase in demand for high-quality carbon materials across various industries. The use of Calcined Anthracite in the production of steel and ferroalloys is expected to enhance the strength and durability of these materials.

There are two main types of calcined anthracite:

- Electrically Calcined Anthracite
- Gas Calcined Anthracite

Electrically calcined anthracite is produced by using electrically heated calcining furnaces, while gas calcined anthracite is produced using rotary kilns that are heated by natural gas or coal gas. Both types of calcined anthracite are used in a variety of industries, including steel production, cement manufacturing, and chemical processing. Electrically calcined anthracite is often preferred for its high carbon content, which makes it an ideal raw material for carbon electrodes used in the production of aluminum and other metals.

Calcined Anthracite is widely used in the steel industry as a carbon additive in the production of high-quality steel. It helps in reducing sulfur and nitrogen content from the molten steel, improving the mechanical and physical properties of the final product. In the carbon products industry, it is used as a base material for the manufacturing of carbon electrodes, cathodes, and carbon blocks. The other applications of calcined anthracite include the production of carbon black, brake linings, and refractory products.

The Calcined Anthracite market is seeing growth in various regions such as North America, Asia Pacific, Europe, the United States of America, and China. In North America, the market is primarily driven by the growing use of calcined anthracite in the steel making industry. The Asia Pacific region is expected to register significant growth, owing to the increasing demand for calcined anthracite in the aluminum manufacturing industry. In the European region, the market is driven by the rising demand for calcined anthracite in the graphite electrode manufacturing industry. The United States of America and China are also expected to witness growth in the calcined anthracite market due to the growth in the steel and aluminum industries.

Calcined Anthracite Market is highly competitive due to the presence of many established players around the world. The leading players in the market include Elkem, RHEINFELDEN CARBON, Asbury Carbons, Rheinbraun Brennstoff GmbH, RESORBENT, Devenergy, Wanboda Carbons & Graphite, China Coal Ningxia Carbon Additive Factory, IVY-CARBON PRODUCTS, Ningxia Huihong, Carbon Valley, TIH, Hongrong, Ningxia Tianxin, Zhixin, Xinzheng Chengxin, and others.

Overall, these companies are playing a crucial role in the growth of the Calcined Anthracite Market, by providing high-quality, reliable products for various applications. The sales revenue figures of these companies are as follows:

- Elkem: \$1.16 billion (2019)
- RHEINFELDEN CARBON: \$2.78 billion (2018)

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The Metamaterial Market is expected to grow from USD 917.36 Million in 2022 to USD 21601.19 Million by 2030, at a CAGR of 57.03% during the forecast period. The Metamaterial market is a niche segment of the advanced materials market, with a focus on engineered materials that exhibit unique and desirable properties not found in natural materials. These materials are used in a broad range of applications and industries, including aerospace and defense, telecommunications, medical devices, and energy. The major factors driving revenue growth in the Metamaterial market include the increasing demand for high-performance materials with unique properties, especially in aerospace and defense applications, the growing market for wireless communication devices, and the increasing investment in research and development activities by key players to improve the properties and applications of metamaterials. Metamaterials are artificial materials engineered to have properties not found naturally in materials, usually made up of multiple small and repeating units, which influence the electromagnetic waves they interact with. The applications of metamaterials are diverse and range from military stealth technology and communication antennas to thermal imaging and cloaking devices. In military stealth applications, metamaterials are used to absorb and scatter radio waves, making objects like ships and planes invisible to radar.

Depending on the frequency band they function in, there are many types of metamaterials such as:

- Electromagnetic metamaterials
- optical metamaterials
- acoustic metamaterials

Wireless communication systems can be improved with the use of electromagnetic metamaterials. In order to create ultra-sensitive sensors and improve imaging resolution, optical metamaterials are helpful. Structures that can lower noise levels are designed using acoustic metamaterials in the automotive and aviation industries. Thermal, mechanical, and biological metamaterials are further categories of metamaterials.

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The market share of North America is expected to be around 35-40%. Europe is expected to hold the second-largest market share percent valuation due to the increasing demand for advanced communication technologies, healthcare, and aerospace applications. The market share of Europe is expected to range from 25-30%. Asia Pacific is expected to witness significant growth in the Metamaterial market due to the rapid adoption of advanced technologies such as 5G, IoT, and AI, along with the growing demand for high-speed internet connectivity and increasing investments in R&D activities. The market share of Asia Pacific is expected to range from 20-25%

The major firms operating in the market include Applied Metamaterials, Kymeta, Metamagnetics, Metamaterial Inc., Kuangchi Science, Xi'an Tianhe, MetaShield LLC, and Metaboards Limited. These companies have been investing heavily in research & development to enhance their product portfolio and to gain market share.

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The Putty Powder Market is expected to grow from USD 38.50 Billion in 2022 to USD 56.10 Billion by 2030, at a CAGR of 5.80% during the forecast period. The Putty Powder market is a niche industry that primarily caters to the construction and renovation sector. It includes an array of products such as cement-based fillers, gypsum fillers, and polymer-based fillers. These products

are used for filling cracks, levelling uneven surfaces, and providing a smooth finishing to the walls and ceilings. The major factors driving revenue growth of the Putty Powder market include the increasing construction activities, rising demand for renovation and remodeling projects, and the growing focus on eco-friendly and sustainable materials.

It is a type of cement-based paste that is available in different varieties, each designed to serve a specific purpose such as:

- Water-resistant putty powder is commonly used in areas exposed to moisture to prevent the growth of mold and mildew.
- Alkali-resistant putty powder, on the other hand, is ideal for surfaces exposed to alkaline substances such as mortar, cement, or plaster.
- Other types of putty powder are gypsum-based, non-shrinking, and ready-mix

Putty powder is a popular construction material used for wall finishing. It is primarily used in the residential and commercial building sectors, where it is applied to smooth out uneven surfaces, conceal imperfections and create a polished look. In residential buildings, putty powder is commonly used to create a smooth surface on walls, ceilings, and other areas before painting. In commercial buildings, it is used extensively in office buildings, malls, and other public spaces to create a clean, polished look.

The market share percent valuation of Asia Pacific is expected to be around 35% by 2025. North America and Europe are also expected to witness significant growth in the putty powder market due to the increasing demand for repair and maintenance activities. The market share percent valuation of North America and Europe is expected to be around 30% and 25%, respectively, by 2025. Latin America and Middle East & Africa are also expected to witness moderate growth in the putty powder market due to the increasing demand in the construction industry. The market share percent valuation of Latin America and Middle East & Africa is expected to be around 5% and 5%, respectively, by 2025.

The putty powder market is highly competitive, and major players in the market are Asian Paints, British Paints, Walplast, Birla White, Acro Paints India Limited, Platinum Plaster Ltd, Timbermate Products, J.K. Cement Ltd, Mapei, Golchha Pigments, Nippon Paint, Sujatha Paints, SSM, Sika, Lions, Weber-Saint Gobain, Huarun, Surfa Coats, Long Zhen, Truefit Skim Coat Products, Duobang, and Gomix Building Materials.

Asian Paints is one of the leading players in the putty powder market with sales revenue of INR 19,894 crore in FY 2020. Birla White, part of the Aditya Birla Group, is another significant player in the market, with sales revenue of INR 6,504 crores in FY 2020. Nippon Paint, a Japanese multinational company, is also among the leading players with sales revenue of JPY 474,374 million in FY 2020.

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