

Electric Insulator Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/E689691BDF53EN.html>

Date: July 2023

Pages: 138

Price: US\$ 2,499.00 (Single User License)

ID: E689691BDF53EN

Abstracts

Market Overview:

The global electric insulator market size reached US\$ 12.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 17.0 Billion by 2028, exhibiting a growth rate (CAGR) of 5.3% during 2023-2028.

Electric insulators refer to materials that exhibit poor electrical conductivity due to the lack of free-flowing electric charge. When a source of electromotive force (EMF) is applied, they demonstrate characteristics like high resistivity and assist in efficiently concentrating the flow of the electric current. Apart from this, they avert the current from flowing in the direction where it is not required. Some of the commonly used electric insulators include ceramic, glass, composite materials, air, rubber, plastic, wood, silk, paper, etc. They are generally used for coating wires, in electricity distribution networks and as dielectrics in capacitors.

One of the key functions of insulators is to offer protection against the hazardous effects of electricity, which makes them useful in electricity transmission and distribution (T&D) networks. Further, insulators find vast applications in different industries as a safety device on account of properties such as low thermal expansion and high dielectric strength. Moreover, several developed economies are currently investing in the refurbishment of aging grid technology and establishing sustainable electrical networks for carrying electricity generated through renewable sources. On the other hand, owing to the factors like rapid urbanization and technological developments, governments in the emerging economies are undertaking initiatives, such as smart grid vision and green energy corridors, to create reliable and efficient grid infrastructure. This is helping in

ensuring that electricity reaches every corner of the country.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global electric insulator market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on material, voltage, category, installation, product, rating, application and end use industry.

Breakup by Material:

- Ceramic/Porcelain
- Glass
- Composites
- Others

Breakup by Voltage:

- Low
- Medium
- High

Breakup by Category:

- Bushings
- Other Insulators

Breakup by Installation:

- Distribution Networks
- Transmission Lines
- Substations
- Railways
- Others

Breakup by Product:

- Pin Insulator
- Suspension Insulator
- Shackle Insulator

Others

Breakup by Rating:

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