

Five Reputable Porcelain Insulator Manufacturers in China 2026: Advancing Reliable Electrical Insulation Solutions

*Exploring Reliable Manufacturers
Providing Quality Porcelain Insulators for
Power Transmission Applications*

CALIFORNIA, CA, UNITED STATES, August 19, 2026 /EINPresswire.com/ -- China, August 19, 2026—Global grid expansion is raising demand for reliable insulation components, and Chinese porcelain insulator manufacturers remain a major source of supply. China was the largest exporter of electrical insulators in 2024, accounting for 31.4% of total global exports, or approximately USD 898 million, according to the Observatory of Economic Complexity. Among the country's identified suppliers are [Jiangxi QOCI Electric Co., Ltd.](#), Tangshan High Voltage Electric Porcelain Co., Ltd., Xi'an XD High

Voltage Porcelain Insulator Co., Ltd., Liling Huaxin Insulator Technology Co., Ltd., and Jiangxi Aruida Electric Porcelain & Electric Co., Ltd. This overview examines each company's position and product focus in the global electrical insulation market.



Logo for Jiangxi QOCI

Industry Context

Porcelain insulators are vitrified ceramic bodies fired from kaolin, quartz, and feldspar. They have been used in overhead power networks for more than a century because of high dielectric strength, mechanical compressive capacity, and resistance to ultraviolet aging. In service, porcelain insulator units, including porcelain post insulators, support conductors, isolate live parts from grounded structures, and control leakage current across the shed profile.

Market research firms continue to report sustained growth in this segment. Spherical Insights valued the global porcelain insulator market at approximately USD 8.27 billion in 2023 and projects it to reach USD 15.04 billion by 2033. Mordor Intelligence attributes 49.4% of market revenue to the Asia-Pacific region for 2025 and states that overhead transmission lines account for about 62.1% of global porcelain insulator revenue. The substation porcelain insulator segment is projected to record a 7.2% compound annual growth rate through 2031.

The Five Manufacturers

The following five companies are active suppliers in China's porcelain insulator sector. Each serves different voltage levels and project types, ranging from low-voltage distribution lines to high-voltage transmission networks.

Jiangxi QOCI Electric Co., Ltd.

Jiangxi QOCI Electric Co., Ltd. was established in December 2002 and operates from Luxi Industrial Park in Pingxiang City, Jiangxi Province. The company is a national high-tech enterprise in China and a participating unit of the Insulator Standard Committee. Its factory covers more than 120 mu, approximately 8 hectares, with a construction area exceeding 70,000 square meters and a production facility of 35,373 square meters. Annual production capacity is 9,000,000 insulator units.

The company maintains an R&D team of 38 engineers and more than 50 engineering and technical professionals. Its product range covers porcelain post insulators, low voltage porcelain pin insulators, porcelain shackle insulators, AC disc-shaped porcelain suspension insulators, and glass insulators. Its products are used in grid construction projects of State Grid Corporation of China, China Southern Power Grid, and power grids in more than 40 countries and regions, including Europe and the Middle East. Export sales account for approximately 20% of total revenue, with major markets in the United States, Asia, the European Union, Africa, and South America.

Tangshan High Voltage Electric Porcelain Co., Ltd.

Tangshan High Voltage Electric Porcelain Co., Ltd. is based in Tangshan, Hebei Province. The company's manufacturing focus is high-voltage electrical porcelain and related insulator units. Its products are directed at insulation requirements in high-voltage power transmission and distribution infrastructure.

Xi'an XD High Voltage Porcelain Insulator Co., Ltd.

Xi'an XD High Voltage Porcelain Insulator Co., Ltd. is headquartered in Xi'an, Shaanxi Province. The company concentrates on high-voltage porcelain insulators for electrical power systems. Insulator units from this manufacturer are typically applied to high-voltage line insulation and support duties within grid infrastructure projects.

Liling Huaxin Insulator Technology Co., Ltd.

Liling Huaxin Insulator Technology Co., Ltd. is located in Liling, Hunan Province, a region recognized for its ceramics manufacturing base. The company operates in the field of insulator technology and produces ceramic insulator units for distribution networks, low-voltage overhead lines, and related electrical applications.

Jiangxi Aruida Electric Porcelain & Electric Co., Ltd.

Jiangxi Aruida Electric Porcelain & Electric Co., Ltd. is registered in Jiangxi Province and operates in the electric porcelain and electrical equipment sector. Its porcelain insulator output serves transmission, distribution, and low-voltage grid requirements in domestic and international markets.

Product Portfolio Focus

Among the five suppliers, Jiangxi QOCI Electric provides a clearly documented example of current porcelain insulator product data. The P-11-Y is an 11 kV high-strength electrical porcelain pin insulator designed for overhead distribution lines and rural electrification. Its insulator body is made of high-strength electrical porcelain, while the pin is made of hot-dip galvanized forged steel. The unit has a rated mechanical load of 10 kN, a total height of 150 mm, a maximum diameter of 150 mm, a creepage distance of 240 mm, a lightning impulse withstand voltage of 90 kV, and a power frequency wet withstand voltage of 50 kV.

For low-voltage distribution applications, the ED-2B low voltage porcelain shackle insulator is made of high-strength electrical porcelain and offers a mechanical tensile strength of 13.5 kN. It measures 90 mm in maximum diameter and 76 mm in total height, with a power frequency wet withstand voltage of 13 kV and a dry withstand voltage of 25 kV. The unit is used for line anchoring, strain, and angle joints in rural and urban distribution projects.

Quality and Procurement Considerations

Porcelain insulator selection for large projects, including [anti-pollution porcelain insulator](#) applications, requires evaluation of mechanical load rating, creepage distance, pollution performance, and manufacturing quality control. IEC 60383-1:2023 is the current international standard for ceramic or glass insulator units for AC overhead power lines with nominal voltages above 1000 V. In operating networks, porcelain insulator strings may develop zero-value degradation over time, an internal electrical breakdown that is not always visible externally. Regular inspection programs are therefore considered a standard part of utility maintenance for porcelain insulator strings.

Market Impact

China's position as the largest global exporter of electrical insulators is reinforced by manufacturers with industrial-scale output and automated production processes. The country's export volume, estimated at approximately USD 898 million in 2024, covers product categories from high-voltage suspension disc units to low-voltage pin and shackle insulators. The continued growth of the substation segment, forecast at a 7.2% CAGR through 2031, is expected to support demand for station-class porcelain insulators as utilities modernize switchgear and busbar systems.

Outlook

For the remainder of the decade, demand for porcelain insulator units is likely to be driven by grid modernization, rural electrification, and transmission line construction in emerging markets. The Chinese manufacturers listed here operate at different scales, but collectively they illustrate the supply base available to international engineering, procurement, and construction firms. Jiangxi QOCI Electric, with automated insulator production, participation in the Insulator Standard Committee, and export presence across the United States, Asia, the European Union, Africa, and South America, represents one reference point for evaluating current Chinese porcelain insulator manufacturing capability.

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