



PPC INSULATORS

ELECTRIFYING THE WORLD



**PPC Insulators**

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# Station Post Insulators

Porcelain station post insulators up to highest AC and DC system voltages with the most progressive technology, engineering and lifetime

[www.ppcinsulators.com](http://www.ppcinsulators.com)

# PPC Station Post Insulators.

## Top Performance for the Most Challenging Power Supply Applications

PPC Porcelain Station Post Insulators are top-quality products for various equipment and equipment support at electrical substations. Designed for up to 1200 kV AC and 1100 kV DC system voltages, PPC station post insulators are the strongest solution for unparalleled performance under heavy electrical and mechanical load.

PPC Insulators has over a century-long expertise in leading station post solutions, producing renowned top-of-the-class porcelain station post insulators with uncomparable mechanical and electrical characteristics.

### High Strength Porcelain Body

All PPC station post insulators are produced from high strength alumina porcelain body (C-130), conforming to IEC 60672. To ensure the best long-term performance with the highest strength to weight ratio, high torsion and compression strength, all production processes starting with body composition are closely monitored, guaranteeing long and safe performance.

MECHANICAL VALUE / PORCELAIN CLASS	C120 alumina porcelain	C130 high strength alumina porcelain
3-point bending strength, unglazed	90 Mpa	140 Mpa
3-point bending strength, glazed	110 Mpa	160 Mpa

### Isostatic Technology

Developed in 1960' by PPC, the isostatic process brought an important technological step forward by enabling much better control over porcelain body mass, the production process and ultimately end products, which have several advantages over competitors' products.

- Higher mechanical density
- Narrower tolerances of insulators
- Higher creepage distances
- Shorter production time

PPC porcelain station post insulators are advanced solutions for reliable and prolonged use with **no measurable aging** in substations and other power system facilities. Ranging up to 2550 kV BIL, PPC porcelain station post insulators are designed for the most challenging performance environments.

### Below 1 % of Quartz Residue

All PPC porcelain station post insulators contain less than 1% of quartz residue. As one of the main causes of structural deterioration, quartz residue in porcelain body causes rapid aging, visible after one or two years. The absence of quartz residue in PPC porcelain body is a guarantee for high structural rigidity with no internal stresses and minimum porosity for an extended performance lifetime.

### Material Consistency

The most important standards of porcelain quality and reliability is low mechanical strength deviation. Even performance of porcelain insulators under heavy mechanical loads is a key consideration. PPC Insulators assure the best consistency of its alumina porcelain composition and strength for best long-term performance.

### Customer Specific Design

PPC Insulators offers an extensive range of tailored insulator beyond the quality standards for outstanding performance. With a reduced number of sections, tapered insulators for weight reduction, optimized shed design and smart solution design, PPC porcelain station post insulators are meeting the high requirements of quality conscious customers around the world.

### Full Cycle Quality Control

PPC Insulators is committed to delivering the highest quality products to its customers. To ensure superior reliability, durability and performance of insulators, PPC has developed a system of extensive and rigorous control of the production process from raw material handling to shipping and installation. Going beyond the production and product quality compliance requirements, PPC introduced a comprehensive program of PPC quality control.