PPC Insulators

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
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 incomparable 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.

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.

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

<table>
<thead>
<tr>
<th>MECHANICAL VALUE / PORCELAIN CLASS</th>
<th>C120 high strength alumina porcelain</th>
<th>C130 high strength alumina porcelain</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-point bending strength, unglazed</td>
<td>90 Mpa</td>
<td>140 Mpa</td>
</tr>
<tr>
<td>3-point bending strength, glazed</td>
<td>110 Mpa</td>
<td>160 Mpa</td>
</tr>
</tbody>
</table>

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.

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.