Porcelain Railway Insulators

- Wet Process Porcelain
- Extrusion Technology
- Wet Turning Process
- C130 High Strength Alumina Porcelain
- High Creepage Options
- Wide Variety of Combined Load Options
- Voltage Class: 11 – 52 kV
- Product Standards: IEC 60433, IEC 60383, IEC 60672, EN 50119
- Experience: > 80 years

Main advantages

- Most Reliable Insulator Product
  (proven bei CIGRE Study/Survey WG 22.03)
- Extreme Weather and Environmental Resistant
- Type A (non puncturable) according to IEC 60383
- High Mechanical Strength
- Life-Expectancy >40 years
- Standardised Designs (DB E.B.S. System)
- Full Capability of Mechanical Combined Load Options
- Silicone Coatings available for Applications under Extreme Pollution

References

See also our complete Reference List for Porcelain Railway Isolators

- 15 kV German Railway
- 25 kV Dutch Railway
- 15 kV Indian Railway
- 15 kV NORGES, Norwegian Railway
- 25 kV RSD, Russian Railway
- 25 kV SBB, Swiss Railway
- 15 kV ÖBB, Austrian Railway
- Balfour Beatty Rail (Germany)
- Fahrleitungsbau GmbH (Germany)

Designs

<table>
<thead>
<tr>
<th>Shank Ø</th>
<th>EMF** Class [max.]</th>
<th>Pollution Class*</th>
<th>h1, Max**</th>
</tr>
</thead>
<tbody>
<tr>
<td>[mm]</td>
<td>[inch]</td>
<td>[kN]</td>
<td>[mm / kV]</td>
</tr>
<tr>
<td>45</td>
<td>1.78</td>
<td>60</td>
<td>12 – 80</td>
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<tr>
<td>60</td>
<td>2.36</td>
<td>100</td>
<td>12 – 80</td>
</tr>
<tr>
<td>75</td>
<td>2.95</td>
<td>160</td>
<td>12 – 80</td>
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</tbody>
</table>

* In accordance with IEC 60815, higher SCD possible in individual cases
** EMF: Electro Mechanical Failing load, routine test load of 80 k EMF
*** max connection length

End Fittings

- All IEC 60273 types
- All ANSI C29.9 types
- Caps and Flanges (customer designs)
- Special customer and tailormade fittings, e.g. for railway applications