

GOBIND MARKETING

Composite Polymeric Insulator

We take this as an opportunity to introduce our company as one of the leading companies here in India with major activities in the field of latest technology Composite Silicon Polymeric Insulators upto 232 KV. The products as produced by us comply with various National/International technical specifications laid world wide over in the related field.

GOBIND MARKETING using their rich experience of more than 45 years in the field of electrical lines and 15 years in Heat Shrinkable Technology was quick to identify the benefits of using similar concept for Composite Polymer Insulator technology to replace traditional materials such as glass or porcelain for insulator .As a result of continued efforts and research a unique polyolefin cladding material formulation have been evolved which is a cross linked polymer with excellent outdoor performance and other desired properties needed for installation of insulators in outdoor conditions.

GOBIND MARKETING combined the technology of this high Performing Polymer material with high mechanical strength fiberglass reinforces rod and metal end fittings to produce a high quality composite Polymeric insulator for various end applications. Benefits of these new technology insulators have been identified as under:-

Technology Advantages of Composite Silicone Insulator

- Light Weight
- Nil Leakage current. Excellent field performance against porcelain insulators
- Impact and vandal resistant
- High Pollution resistance
- Low profile - makes them less environmentally obtrusive
- Flameproof
- UV Resistance and Track Resistance
- A wide range of substrates and end fitting
- Many direct replacement products to obviate the need to re-tension lines after replacement of traditional insulators

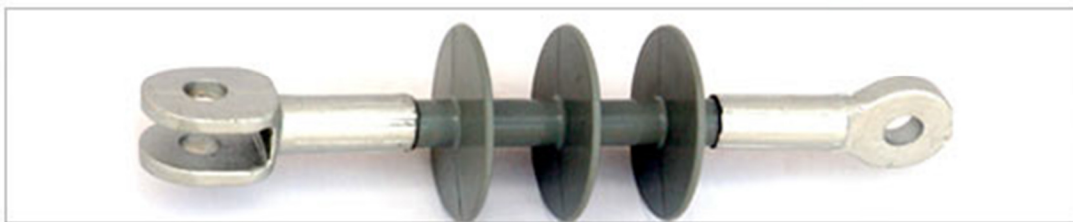


Technology Advantages of Composite Silicone Insulator

Factor	Porcelain	Composite
- Weight	- Heavy	- Light
- Hydrophobicity	- poor	- Excellent
- Polluted Environments	- Performance Not Satisfactory	- Performance Excellent
- Leakage current	- High	- Low
- Tracking & ARC Resistance	- Poor	- Excellent
- Installation Cost	- More	- Less
- Vandalism	- More Susceptible	- Highly Resistant
- Breakages	- Pronable	- Unbreakable
- Maintenance Cost	- High	- Negligible
- Mechanical Strength	- Low	- High

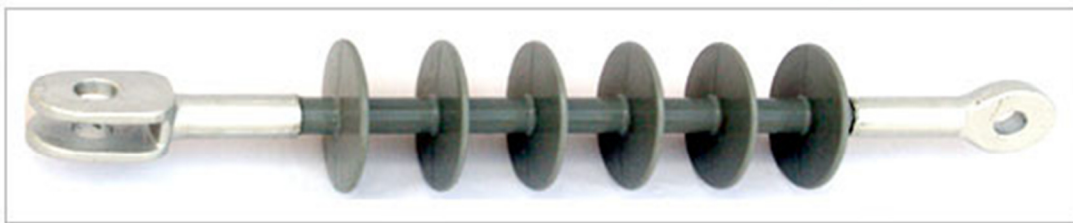
Typical design data of 11-15kv Composite Insulators

Nominal System Voltage kv	Min. Creepage Distance mm	Section Length mm	Rated Mechanical tensile load kN	Wet Power freq. 1 Min. withstand voltage kV	Dry lighting impulse withstand voltage kV
11	320	290	45 (T&C)	35	75
11	320	290	45 (B&S)	35	75
11	320	290	05 (PIN)	35	75
11	320	300	70 (B&S)	60	150
11	320	320	70 (T&C)	60	150
11-15	415	320	45 (T&C and B&S)	60	150
11-15	415	270	70-90 (T&C and B&S)	60	150
11-15	415	300	05 (PIN)	60	150



Typical design data of 22-28kv Composite Insulators

Nominal System Voltage kv	Min. Creepage Distance mm	Section Length mm	Rated Mechanical tensile load kN	Wet Power freq. 1 Min. withstand voltage kV	Dry lighting impulse withstand voltage kV
22	600	440	45 (T&C)	60	140
22	600	460	60 (T&C)	60	140
22	600	385	05 (PIN)	60	140
22	600	415	70 (B&S)	60	140
22	600	415	60 (B&S)	60	150
22	600	415	45 (B&S)	60	150
22-25	600	390	10 (Post)	60	140
22-25	600	425	10 (Pin)	60	140
22-25	600	430	10 (Pin)	60	140



Typical design data of 33-36kv Composite Insulators

Nominal System Voltage kv	Min. Creepage Distance mm	Section Length mm	Rated Mechanical tensile load kN	Wet Power freq. 1 Min. withstand voltage kV	Dry lighting impulse withstand voltage kV
33	860	490	45-60(T&C)	75	175
33	860	510	45-60(T&C)	75	175
33	860	510	70 (B&S)	75	175
33	900	510	70 (T&C)	90	230
33-36	900	530	70-95 (T&S)	90	230
33-36	925	440	10 (PIN)	75	175
33-36	950	440	10 (PIN)	90	230
33-36	925	410	10 (POST)	75	175

