



COMPOSITE POLYMER INSULATORS



• TYPE TESTED AS PER IEC 61109



DENSONS



COMPANY PROFILE

YPIL, Yamuna Power & Infrastructure Ltd. (Formerly Yamuna Gases & Chemicals Ltd.) commenced operation in 1973 as a manufacturer of Cable Jointing kits. Today YPIL is a global forefront player in providing complete power Cable Jointing Solutions & FRP Products from Yamuna Nagar (INDIA) & SHENZHEN (PRC) operations.

YPIL are manufacturers of all types of power Cable Jointing Kits & Termination and allied products.

Our products conform to the various standards stipulated for the industry such as IS/BS IEC/DEN/VDE/Cenelec etc. Quality is our benchmark and the consistent performance of our products for more than 35 years under extreme temperatures and atmospheric conditions has conclusively proven the insulating, sealing ability & quality standard of the products.

The company diversified into turn-key projects for Power sector Utilities, Metro Railways and Discoms including civil works. The company has also diversified into manufacturing of switchgears such as VCB, Control & Relay Panel and Composite Polymeric Insulators.

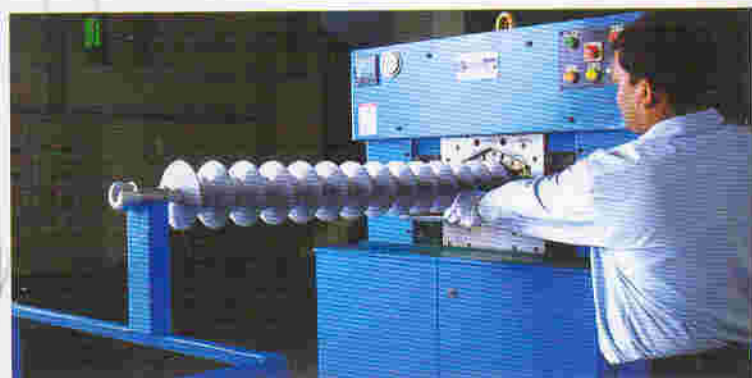
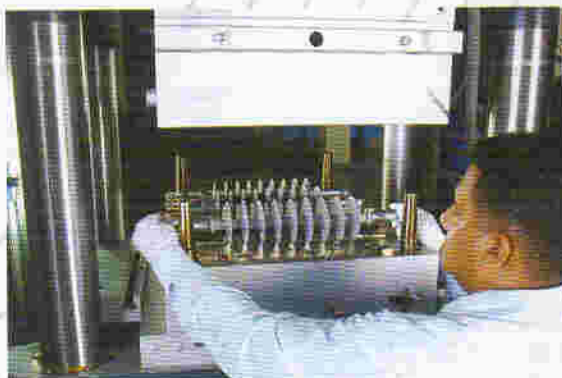


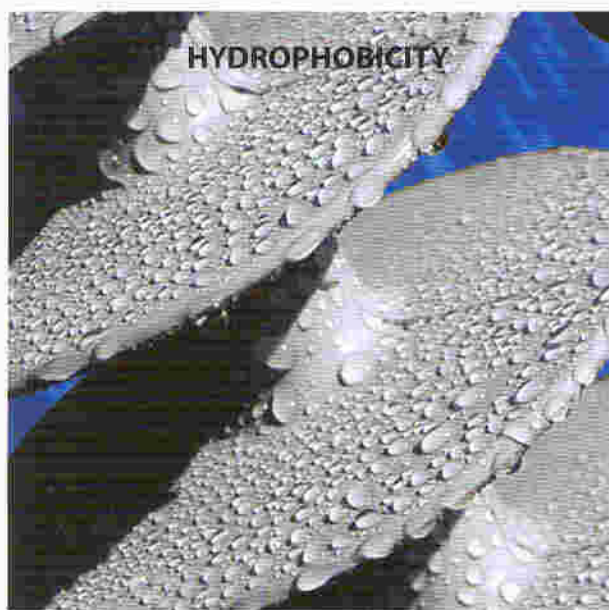
Introduction of Composite polymer Insulators

Yamuna Power & Infrastructure Composite silicone rubber Insulators confirming to International Specifications and standards. In the early days, insulators were made of ceramic and glass material only. But in late 1960's polymeric insulator were developed and its improvements in design and manufacturing in the recent years have made them attractive to utilities.

The usage of composite insulators demonstrating their capabilities in diverse environments and now the usage is growing to prevent line flash over triggered by pollution.

With advanced technology, superior & reliable equipment and strict quality control our company comes out as one of a quality manufacturer for composite silicone rubber insulators. The composite silicone rubber insulators offer significant benefits such as better contamination performance, lighter weight, and seismic resistance.



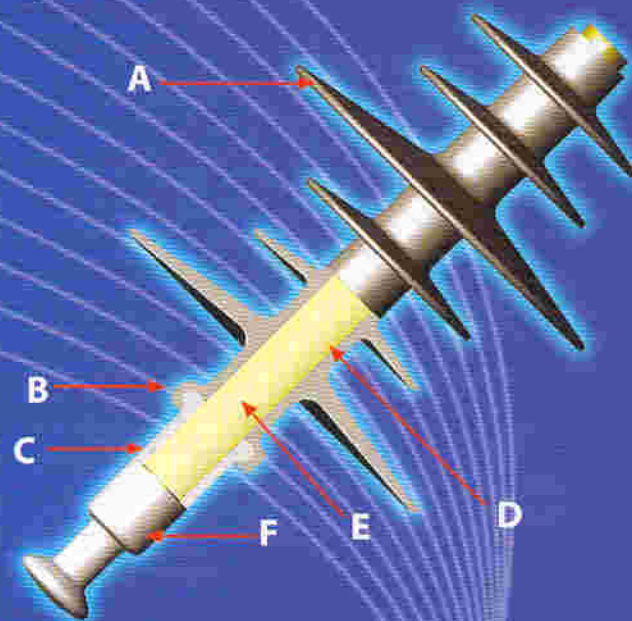


Technology advantages of Composite Insulator

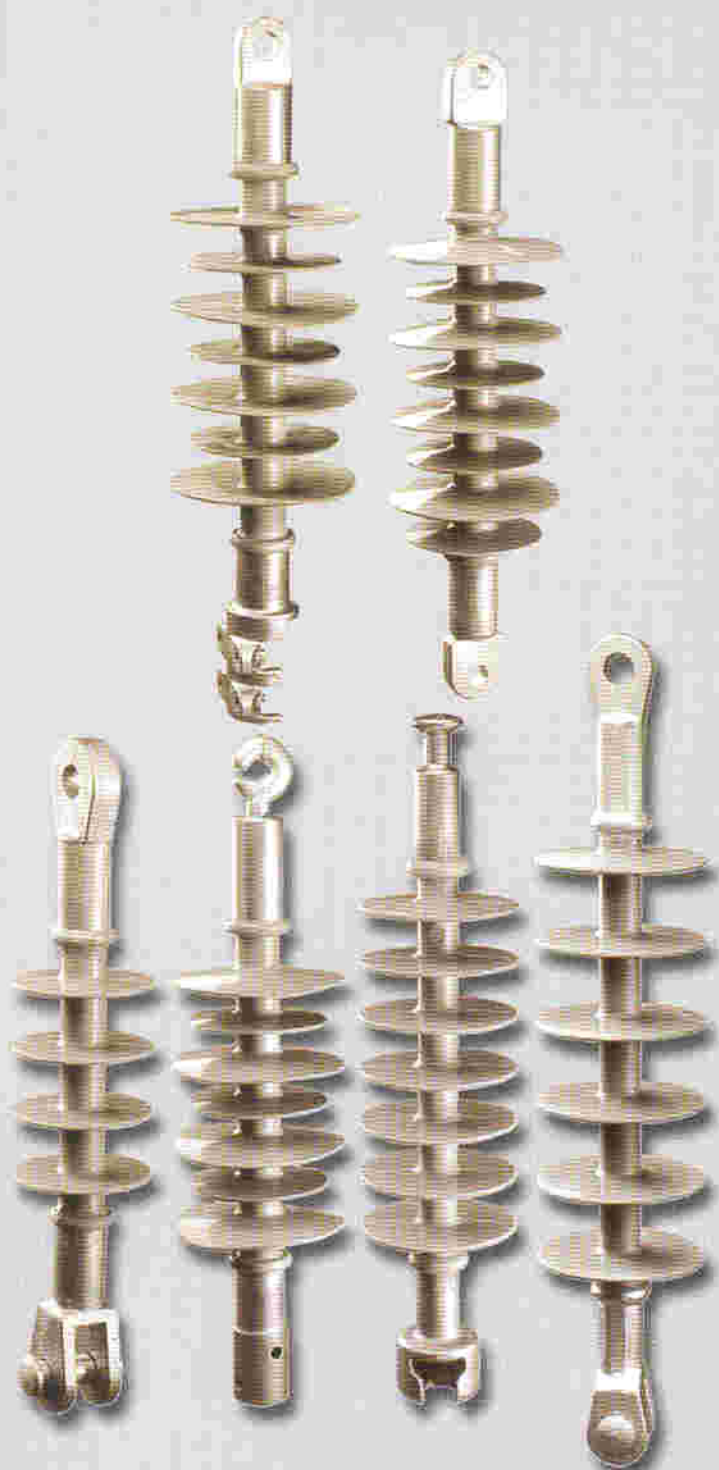
- Light weight (65-80% less than ceramic insulator)
- Silicone rubber sheds provides perfect hydrophobic performance, good resistance to aging, tracking and erosion
- Stable behaviour at extreme climatic conditions.
- Long term surface hydrophobicity
- Suitability for polluted environment, salty atmospheres etc.
- Resistance to breakage and vandalism, practically unbreakable
- Superior anti-tracking properties
- High mechanical strength
- Ease of installation (easier handling with lighter equipment and labour at the job site)
- Resistance to Seismic Shock
- Compliance with IEC 61109, ANSI C29-11-1989



UNIQUE PRODUCT DESIGN



- A** SILICONE RUBBER SHED DESIGN ADOPTS SPECIAL AIR DYNAMIC PROFILE
- B** THE END SEALS ADOPTS TECHNIQUE THAT HIGH PRESSURE SEALING WITH HTV SILICONE RUBBER, WHICH GIVES GOOD PROTECTION AND RELIABLE PERFORMANCE
- C** FITTING CONNECTION ADOPTS INTERNATIONAL ADVANCED CRIMP CONNECTION PROCESS
- D** SHEATH THICKNESS IS MORE THAN 3MM, IT IS UNIFORM AND ACCORDS WITH INTERNATIONAL/IEC STANDARDS
- E** ANTI-ACID FRP ROD WITH ECR GLASS
- F** HOT DIP ZINC GALVANIZED SURFACE





COMPARISON OF PORCELAIN VS COMPOSITE 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

TECHNICAL PARTICULAR OF COMPOSITE INSULATOR

Nominal System Voltage kV	Sectional Length in mm	Specified Mechanical Load KN (min.)	Creepage Distance in mm	P.F (Dry) Withstand Voltage kV/mint.	P.F (Wet) Withstand Voltage kV/mint.	Impulse Withstand Voltage kVP	Type of metal Fitting
11-15	290	5kN	340	65	40	80	PIN
11-15	290	45	340	65	40	80	T & C/B & S
11-15	320	70-90	340	65	40	80	T & C/B & S
22-25	430	70-90	770	105	60	150	T & C/B & S
33-36	540	70-90	1005	125	90	230	T & C/B & S
66 Sus.	774	70-90	2030	200	140	350	B & S
66 Tens.	884	120	2441	200	140	350	B & S
132 Sus.	1338	70-90	3850	350	275	650	B & S
132 Tens.	1510	120	4350	350	275	650	B & S
220 Sus.	2119	70-90	7595	630	540	1050	B & S
220 Tens.	2256	120	7975	630	540	1050	B & S

Note:- Insulator with different of metal fitting can be manufactured as per requirement

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