



CATALOG **011**

# **Polymer Suspension Insulators 69kV to 765kV**

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**NGK Locke Polymer Insulators, Inc.**  
**Virginia Beach, Virginia, U.S.A.**

## PACKING

All insulators are packed in weatherproof containers in order to secure the products during transportation (air, surface and railroad).

Each box or container is marked with the number of insulators contained therein, the catalog number, description of the contents, the manufacturer's name, and other customer requirements.

**“POLYMER SUSPENSION INSULATORS HANDLING INSTRUCTION”** is attached on all packing boxes, which describes recommended caution during handling, transportation, and installation.



Closed Wooden Box  
with Corona Ring



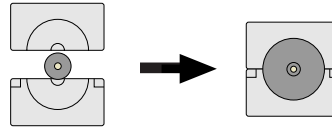
Prefabricated Packaging



Closed Wooden Box

## NGK's compression mold method

- Smoothly flowing rubber fills entire cavity
- Complete one-piece molding with no joint up to 800kV
- Stronger chemical bonding between rubber and FRP.



# MAJOR MANUFACTURING PROCESS

## Assembly



- Superior gripping of rod by hardware using an exclusive multi-step pressure controlled process
- Excellent water-tight sealing (double O-rings and silicone sealant) prevents moisture ingress to the core

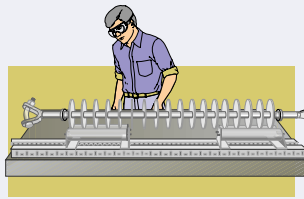


- Acoustic emission sensing device: Any harmful crack on FRP rod is routinely screened out through acoustic sensor monitoring.

## Final Inspection



- **Routine tensile proof test**  
Every insulator is subjected to tensile load testing in accordance with standards

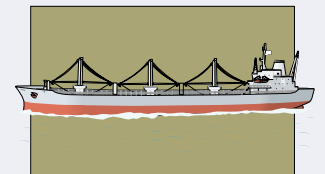
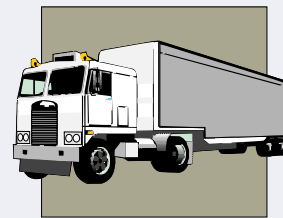
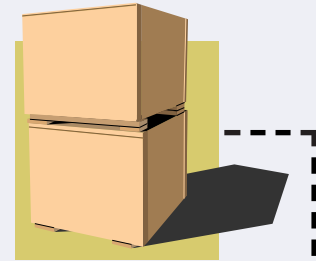


- After the final visual inspection, insulators are carefully packed according to customer specifications.

## Packing & Shipping



- Ready to ship to customers in the United States and overseas.



### Silicone Rubber

Silicone rubber has a unique feature called hydrophobicity. Low molecular weight silicone migrates from the rubber body on the surface, and coats any surface contaminants preventing the wetting of the contaminants and the flow of leakage current. As a result, silicone insulators have a superior pollution performance to other insulators.



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