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Chapter 1

Suspension Insulator Definition

1.9 Suspension Insulator Tests

By Orient Power

Suspension Insulator Tests



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✚ **Suspension insulator tests:**

Orient Power does tests on all the suspension insulators, because the tests for the insulators can affect the quality of the suspension insulator.

✚ **Porcelain suspension insulator tests:**

- Design tests: Low-frequency dry/wet flashover test, Critical impulse flashover tests-positive and negative, Radio-influence voltage test, Thermal-mechanical load cycle test, Thermal shock test, Residual-strength test...
- Quality conformance tests: Visual and dimensional tests, Porosity test, Galvanizing test, Combined mechanical and electrical-strength tests, Puncture tests
- Routine tests: Cold-to-hot/hot-cold thermal shock test, Tension proof test, Flashover test.

✚ **Silicone rubber suspension insulator tests:**

- Design tests: Tests on interfaces and connections of end fittings, Tests on core material, Tracking and erosion test...
- Type tests: Electrical tests...
- Sample tests: Verification of dimensions, mechanical test, dye penetration test, gauging test...
- Routine tests: Mechanical routine test, Visual examination