Chapter 6

Insulator Testing

6.7 Insulator Standard

By Orient Power
Insulator Standard:

Electrical insulators are designed, manufactured and tested as per ANSI standards, IEC standards, and other international or national standards, such as DIN, AS, BS, etc.

Major Porcelain insulator Standard:

- **ANSI C29.1**: Test methods for electrical power insulators
- **IEC 60383**: Ceramic or glass insulator units for a.c. systems – definitions, test methods and acceptance criteria
- **ANSI C29.2**: for wet-process porcelain and toughened glass suspension type insulators
- **ANSI C29.3**: for porcelain spool / reel insulators
- **ANSI C29.4**: for wet-process porcelain stay / guy strain type insulators
- **ANSI C29.5**: for wet-process ceramic insulators low and medium voltage types
- **ANSI C29.6**: for high voltage pin type wet process porcelain insulators
- **ANSI C29.7**: for high-voltage line-post type wet process porcelain insulators
- **ANSI C29.8**: for apparatus, cap and pin type wet-process porcelain insulators
- **ANSI C29.9**: for apparatus, post-type wet-process porcelain insulators
- **ANSI C29.10**: for indoor apparatus type wet-process porcelain insulators

Major Composite insulator standard:

- **ANSI C29.11 & IEC 61109** (for composite insulators), **ANSI C29.12** (for suspension type), **ANSI C29.13** (for deadend type), **ANSI C29.17 & C29.18** (for line post type), **ANSI C29.19** (for station post type), etc.