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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21206-2007

Characteristics of line post insulators

线路柱式绝缘子特性

(English Translation)

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Foreword

This revised standard adopts IEC 60720. 1981 "line post insulators Characteristics" (in English).

For ease of use, the IEC 60720. 1981 standard, the following editorial changes made.

a) Remove IEC 60720. 1981 foreword and preface;

b) use the "standard" instead of "this International Standard." Taking into account China's current production and use, to increase the normative appendix A, in which they are involved with the provisions margin vertical Straight single line logo. Appendix B gives a list of these technical differences and their causes.

This standard from the implementation date, JB/T 8509-1996 "high-voltage line post porcelain insulators," and JB/T 8179-1999 "high-voltage lines Porcelain cross arm insulator Dimensions and characteristics "abolished.

Appendix A of this standard is a normative appendix, Appendix B is an informative annex.

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Standardization Technical Committee Insulators (SAC/TC80) centralized.

This standard was drafted. Xi'an Institute of Electric Porcelain.

1 Scope

Line post porcelain absolutely This standard applies to the rated voltage higher than 1000V, frequency no greater than 100Hz ac overhead lines with Margin child.

This standard applies to vertical or horizontal installation (Fig. 1) at the top lashing type line post insulators, also applies to the upright (Fig. 4), and water Flat installation (Fig. 5) of the top of the clamp-type line post insulators.

This standard applies in clean or moderately polluted areas with overhead lines, a standard creepage distance and line post insulators in polluted areas with overhead lines with a longer creepage distance of line post insulators.

NOTE: After this standard may be considered for promotion glass insulators.

Objective 2

The purpose of this standard is to specify the characteristics of electrical porcelain insulators line, the mechanical properties of a given value and the principal dimensions (see Table 1 and Table 2).

NOTE: General definitions and test methods in GB/T 1001.1-2003 "nominal voltage above 1000V Insulators for overhead lines - Part 1. Communication Department EC gives Ceramic or glass insulator units --- Definitions, test methods and acceptance criteria "on.

3 Electrical Characteristics

According to GB 311.1-1997 "insulated high voltage transmission and distribution equipment", each line post insulators prescribed by lightning impact resistance Characterized by the rated voltage and power frequency wet withstand voltage.

Note: The operating voltage is not specified because it depends on the operating conditions for a given operating voltage, it is necessary to select a different impulse withstand voltage levels must Margin child.

4 Mechanical properties

Each line post insulators by the minimum bending failure load prescribed characterized.

Typically, this bending failure load 12.5kN, In addition, the impulse withstand voltage level of 170kV and below (including 170kV) top Lashing unit type line insulator, its bending failure load 8kN.

For top binding insulators, bending load is applied to the side of the groove center for top clamp insulators, bending load applied by the Size H determined point.

5 Dimensional characteristics

It defines the following dimensional characteristics.

- Minimum nominal creepage distance;
- Nominal overall height;
- Greatest common insulating member, said diameter;
- Minimum nominal diameter, said bottom metal fitting;

The recessed portion and the central screw --- base metal attachment (Fig. 8) size.

Note: The two kinds are shown in Table 1 and Table 2, the level of insulation creepage distance is usually suitable for the application and choose according to JB/T 5895-1991 "dirty areas to make insulators with the Guidelines "requirement.

5.1 Pairs of lashing top insulators (Figures 2 and 3)

- Head diameter;