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

GB/T 6109.3-2008

Replacing GB/T 6109.3-1985

**Enamelled round winding wire -- Part 3: Polyvinyl acetal
enamelled round copper wire, class 120**

漆包圆绕组线 第3部分:120级缩醛漆包铜圆线

(English Translation)

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Table of Contents

Introduction

1 Scope

2 Normative references

3 Definitions, test methods and appearance General

Size 4

5 Resistance

Elongation 1

2 7 resilience

8 Flexibility and adhesion

9 Thermal Shock

10 Softening

11 Scratch (conductor nominal diameter 0.250mm and 2.500mm above and below)

12 Solvent

13 Breakdown Voltage

Continuity 2 film

15 Temperature index

16 Anti-freezing agent

17 Solderable

18 Thermal bonding

19 4 dielectric loss factor

20 Transformer oil resistant

21 4 Loss

23 Pinhole test

30 Package

Foreword

GB/T 6109 "enamelled round winding wires" is divided into 22 parts.

--- Part 1. General requirements;

--- Part 2. 155 polyester enamelled round copper wire;

--- Part 3. 120 acetal enamelled round copper wire;

- Part 4. 130 solderable polyurethane enamelled round copper wire;
- Part 5. 180 polyester enamelled round copper wire;
- Part 6. 220 Polyimide enamelled round copper wire;
- Part --- Article 7. 130L grade polyester enamelled round copper wire;
- Part 9. 130 polyamide composite solderable polyurethane enamelled round copper wire;
- Part 10. 155 solderable polyurethane enamelled round copper wire;
- Part 11. 155 polyamide composite solderable polyurethane enamelled round copper wire;
- Part 12. 180 polyester or polyamide, polyester enamelled round copper wire;
- Part 13. 180 solderable polyester-imide enamelled round copper wire;
- Part 14. Polyamide-imide 200 enamelled round copper wire;
- Part 15. 130 self-adhesive straight welding polyurethane enamelled round copper wire;
- Part 16. 155 self-adhesive straight welding polyurethane enamelled round copper wire;
- Part 17. 180 self-adhesive Solderable polyesterimide enamelled round copper wire;
- Part 18. 180 self-adhesive polyester enamelled round copper wire;
- Part 19. 200 self-adhesive polyester or polyester-polyamide-imide enamelled round copper wire;
- Part 20. 200 polyester or polyester-polyamide imide enamelled round copper wire;
- Part 21. 200 Polyester - amide - imide enamelled round copper wire;
- Part 22. 240 aromatic polyimide enamelled round copper wire;
- Part 23. 180 straight welding polyurethane enamelled round copper wire.

This is Part 3 GB/T 6109's. This section identical with IEC 60317-12:1990 "winding wires Product Standards Part 12. 120 acetal enamelled round copper wire, "2nd edition (in English), No. 1 amendments (1997) and in the No. 2 amendments (2005).

For ease of use, this section made the following editorial changes.

- Deleted international standards foreword;
- With a decimal point "." Instead of a comma as the decimal point "," Since the implementation of this section instead of GB/T 6109.3-1985.

Section compared with the GB/T 6109.3-1985, major changes in the following.

- Increase the heat resistance test requirements, clearly defined temperature index 120;

--- Increasing the breakdown voltage of the test performance at elevated temperatures, increasing the appearance, pinhole pilot projects.

This part is proposed by the China Electrical Equipment Industrial Association.

This part of the National Standardization Technical Committee Wire and Cable (SAC/TC213) centralized.

This part of the unit responsible for drafting. Shanghai Electric Cable Research Institute.

Participated in the drafting of this section. Chase Electrical Co., Ltd., Jiangsu, Chongming special Electromagnetic Wire Factory, the first board Electrical Equipment Co., Ltd., Bo Cable Co., Ltd., Wuxi tin Chau Wire Factory, Zhejiang Great Wall Electronic Technology Group.

GB/T 6109.3-2008/IEC 60317-12:1990

1 Scope

GB/T 6109 This section provides a single paint layer to the polyvinyl acetal resin-based 120 enamelled round copper wire requirements. Such as If we could retain the chemical properties of the original resin and meet all the requirements specified in the wire, the resin may be modified.

NOTE: chemically-modified resin is a variation of, or contain one or more additives to improve certain properties of the resin or its usage characteristics.

120 represents the thermal level, which requires a minimum temperature index of 120, a heat shock temperature of at least 155 °C.

Corresponding to the temperature index temperature in Celsius is not recommended wire temperature, because it depends on the type of equipment used include Many factors within.

Conductor nominal diameter range specified in this standard are.

--- Level 1. 0.040mm and 2.500mm above and below;

--- Level 2. 0.040mm and 5.000mm above and below;

--- Level 3. 0.080mm and 5.000mm above and below.

Nominal press GB/T 6109.1-2008 prescribed in Chapter 4, the diameter of the conductor.

2 Normative references

The following documents contain provisions which, through reference to GB/T 6109 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this

section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

Part 1 GB/T 6109.1-2008 enamelled round winding wire. General requirements (IEC 60317-0-1:2005, IDT)

3.1 General

Definitions, test methods, see General GB/T 6109.1-2008 Chapter 3.

If GB/T 6109.1-2008 in this section are contradictory to this section shall prevail.

3.2 Appearance

See GB/T 6109.1-2008 in 3.3.

4 Dimensions

See GB/T 6109.1-2008 in Chapter 4.

5 Resistance

See GB/T 6109.1-2008 in Chapter 5.

6 Elongation

See GB/T 6109.1-2008 in Chapter 6.

GB/T 6109.3-2008/IEC 60317-12:1990