



产 品 说 明 书
Product Instruction

产品名称：
水性绝缘漆

Product Name:
Waterborne Insulating Varnish

产品型号：
CX936-5

Product Model:
CX936-5

厂商名称：珠海长先新材料科技股份有限公司
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CX936-5 水性绝缘漆

CX936-5 Waterborne Insulating Varnish

产品描述:

Product Overview:

CX936-5 是一款改性水性环氧绝缘漆, 气味小、VOC 含量低、不燃不爆, 安全环保; 具有优异的润湿性能和粘接性能, 漆膜平整、柔韧、粘结力强。

CX936-5 is a modified waterborne epoxy insulating varnish with low odor and low VOC. It is non-flammable, non-explosive and environmentally friendly, with excellent wetting and bonding performance, and forms a smooth, flexible, strongly bonded film.

产品特性:

Features:

- 气味小、VOC 含量低, 不燃不爆。
- 漆膜平整、柔韧, 粘结力强。
- 具有优异的润湿和粘接性能。
- Low odor and VOC; non-flammable and non-explosive.
- Forms a smooth, flexible film with strong adhesion.
- Provides excellent wetting and bonding performance.

产品应用:

Product Applications:

- 广泛用于电机和各种变压器的浸渍绝缘处理。
- 特别适用于高频变压器, 具有优异粘结性。
- Widely used for impregnation insulation of motors and transformers.
- Especially suitable for high-frequency transformers, with excellent adhesion.

性能指标:

Performance Specifications:

序号 No.	指标名称 Property	试验条件 Test Conditions	指标值 Specification
1	外观 Appearance	目测 Visual	乳白色液体, 无机械杂质 Milky-white liquid, free of mechanical impurities
2	粘度 Viscosity	涂-4 杯, 25±1°C Tu-4 cup, 25±1°C	11~15 s
3	比重 Specific gravity	20°C	1.030±0.03
4	固体含量 Solids content	1g 漆, 45mm×45mm×25mm 敞口铝盒, 125°C/1h 1 g varnish in a 45×45×25 mm open aluminum dish, 125°C/1 h	25±3%

序号 No.	指标名称 Property	试验条件 Test Conditions	指标值 Specification
5	干燥时间 Drying time	马口铁皮, 105°C Tinplate, 105°C	表干 5~10min; 实干≤120min Surface dry 5–10 min; through dry ≤120 min
6	介电强度 Dielectric strength	常态 As received	≥60 MV/m
7	粘接强度 (螺旋线圈法) Bond strength (helical-coil method)	常态 As received	≥70 N
8	体积电阻率 Volume resistivity	常态 As received	≥1×10 ¹² Ω·m
9	体积电阻率 Volume resistivity	浸水 2h 后 After 2 h water immersion	≥1×10 ¹⁰ Ω·m
10	潮态电气强度保持率 Electrical-strength retention after damp heat	50±2°C, RH90%, 48h	≥80%
11	耐温等级 Thermal class	—	B 级 Class B
12	使用温度 Operating temperature	—	-45~130°C

使用工艺:

Application Procedure:

配漆: 建议 CX936-5:去离子水=1:0.5~1; 根据工件及性能要求兑稀。搅拌均匀后静置 20 分钟再使用。

预热: 工件在约 100°C 充分预热, 降至 50~60°C 后放入漆槽。浸油: 常压 5~15min, 或真空 3~8min; 静置 15~30min。

烘烤: 90~95°C 下 3~4h, 或 110°C 下 2~3h。最佳阶梯工艺为 80~90°C 下 1h, 再于 100~120°C 下 2~3h。具体条件应通过试验确定。

Preparation: Recommended ratio CX936-5:deionized water = 1:0.5–1; adjust according to the workpiece and performance requirements. After thorough mixing, allow to stand for 20 minutes before use.

Preheat the workpiece thoroughly at about 100°C, cool to 50–60°C, then immerse. Impregnate for 5–15 min at atmospheric pressure or 3–8 min under vacuum; stand for 15–30 min.

Bake for 3–4 h at 90–95°C or 2–3 h at 110°C. Recommended staged baking: 1 h at 80–90°C, then 2–3 h at 100–120°C. Determine exact conditions by testing.

注意事项:

Precautions:

本指南为一般指导, 具体生产工艺以客户现场需求为准。

This guide provides general guidance; the actual production process shall be based on customer site requirements.

包装、储运及保质期:

Packaging, Storage, Transportation and Shelf Life:

- **包装:**

20KG/桶、200KG/桶

- **储运:**

请远离火源、热源，按法规搬运。

本产品存储和使用过程中，禁止太阳光、紫外光照射漆液，存放于阴凉通风处，存储温度应低于 40℃。

使用过程中产品不宜长时间密闭静置，适当流动搅拌有利于延长存储时间。

本产品在存放过程中，粘度会发生轻微增长，使用时用专用稀释剂兑稀到使用粘度，使用即可。

- **保质期:**

密闭保存，存储温度应低于 40℃，保质期为 6 个月

- **Packaging:**

20 KG/pail; 200 KG/drum.

- **Storage and Transportation:**

Keep away from ignition sources and heat. Handle and transport in accordance with applicable regulations.

Protect the varnish from sunlight and ultraviolet light during storage and use. Store in a cool, well-ventilated area below 40°C.

During use, avoid leaving the product sealed and undisturbed for prolonged periods. Gentle circulation or stirring helps extend storage life.

Viscosity may increase slightly during storage. Before use, adjust to the required application viscosity with the designated thinner.

- **Shelf Life:**

Six months when stored in sealed containers below 40°C.

安全操作须知:

Safe Handling Instructions:

安全使用须知不在此列出，操作前请阅读本产品的化学品安全说明书（MSDS），可从本公司业务专员处获得。

Safety instructions are not listed in this document. Before operation, please read the Material Safety Data Sheet (MSDS) of this product, which can be obtained from our sales representative.

温馨提示:

Please Note:

- 由于我们的产品会持续优化和改进，本手册中的相关信息可能会根据实际情况进行调整，不另行通知。如需获取最新版本或了解更多信息，欢迎随时联系我们的销售团队。

- 本公司严格按相关产品标准控制质量和提供产品（特制品按双方约定）。产品应用条件的多样性和多变性，且均非我们所能控制，因此用户应对本产品之说明书与施工参考工艺所介绍的信息和产品预先进行试验和评估，自行确定对其特定用途的适用性。

- As our products are continuously improved, the information in this manual may be updated from time to time without prior notice. Please feel free to contact our sales team for the latest version.

- Do not mix this product with other products.

- We strictly control product quality and supply products in accordance with applicable product standards.

Custom products are supplied according to mutually agreed specifications. Application conditions vary and are beyond our control. Users should therefore test and evaluate the product and the information provided in this manual and the recommended application procedures to determine suitability for their specific use.