

水性浸渍绝缘树脂 DN-6180P

Water-based impregnating insulating resin DN-6180P

水性浸渍绝缘漆 **DN-6180P** 为单组份环氧型漆，直接兑水使用，具有粘结力高，储存稳定性优异、使用方便、不易燃、环保等优势。适用于各种 F、H 级电机、包括轮毂电机，电动工具、吸尘器以及厨房和空气净化器等气味要求高的领域。

Water-based impregnating insulating resin DN-6180P is a one component epoxy resin, which can be used directly adding water, and has the advantages of high bonding strength, excellent storage stability, easy to use, non-flammable and environmentally friendly. It is suitable for wide range kinds of F and H class motors, including hub motors, power tools, vacuum cleaners, and high odor-critical applications such as kitchens and air purifiers.

1、性能和指标/Performance And Indicators

| | 项 目/Item | 检测指标/Testing Indicators | 检测方法/Test Method |
|---|---|--------------------------|----------------------|
| 1 | 外观/Appearance | 乳白色液体/Milky white liquid | GB/T 1981.6- 2014 |
| 2 | pH | 7.0-10.0 | |
| 3 | 固含量/Solid Content (125°C*1h) | 20-50% | |
| 4 | 固化时间/Curing Time (h) | 2-4 | |
| 5 | 固化温度/ Curing Temperature (°C) | 135-180 | |
| 6 | 电气强度/Electrical Strength (MV/m) 23±2°C | ≥100 | |
| 7 | 体积电阻率/Volume Resistivity (Ω·m)23±2°C | ≥1.0×10 ¹¹ | |
| 8 | 储存期/Storage Period (5-35°C) | 6 Months | |
| 9 | 包装规格/Packaging Specification | 200kg/drum | |

2. 注意事项/Cautions

绝缘漆必须烘干，否则可能出现漏电、生锈及击穿等情况，因未烘干或未严格按照参考工艺操作而出现的质量问题，公司不承担相应责任。其中烘烤温度以定子漆包线实际温度为准，其他注意事项如下：

The insulating varnish must be dried, otherwise there may be electric leakage, rust and breakdown, etc. The company will not be responsible for any quality problems arising from not drying or not operating in strict accordance with the reference process. Among them, the baking temperature is subject to the actual temperature of the stator equipped with the enameled wire, and other precautions are as follows:

2.1 初次使用本产品时应确保浸漆系统清洁，避免油性物质的污染而影响水性漆的性能。对漆槽及管路要进行定期清理，除去铁屑、灰尘等杂质。

When using this product for the first time, you should ensure that the paint dipping system is clean to avoid contamination by oily substances which may affect the performance of water-based paint. The paint tank and piping should be cleaned regularly to remove iron filings, dust and other impurities.

2.2 严禁混入酸性、碱性、油性等物质，加入会引起致命漆膜缺陷。

It is strictly prohibited to mix acidic, alkaline and oily substances, the addition of which will cause fatal defects of the paint film.

2.3 水性漆用水稀释至所需固含量，粘度一般控制在 9-12S 范围，浸渍时间 1~8min，滴漆时间 1~8min，固化过程中应注意温度和控制，烘烤温度以实际温度为准，烘烤时间根据工件的大小来确定。由于水的蒸发潜热大，建议烘烤温度至少达 135℃。烘箱的出风口必须保证畅通，利于水汽的排出，以免影响漆膜的固化速度。

The waterborne paints can be diluted with water to the required solid content, and the application parameters are generally controlled in the range of 9-12S in paint viscosity, 1 ~ 8min in impregnation time, 1 ~ 8min in dripping time. During the curing process, please pay attention to the control of the temperature and time, the baking temperature to the actual temperature shall prevail, the baking time should be determined according to the size of the workpiece. Because of the latent heat of

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evaporation of water, it is recommended that the baking temperature should be at least 115 °C . The air outlet of the oven must be guaranteed to be smooth, which is conducive to the discharge of water vapor, so as not to affect the curing speed of the paint film.

2.4 出炉后工件必须先进行耐压和绝缘电阻测试，达到出厂指标说明已经烘干，不能达到出厂指标的必须提高烘烤温度或延长烘烤时间。

The workpiece freshly out of the oven must first be tested for voltage and insulation resistance. Meeting the factory indicators means drying finished, not meeting the factory indicators means the higher baking temperature or the longer baking time is needed.

2.5 引出线接口建议使用热缩套管，以免水汽进入导致焊接口以及电线生锈。

It is recommended that heat-shrinkable tube should be used for the lead wire connections to prevent moisture from entering and causing rusting of the solder joints as well as the wires.

2.6 浸漆过程中，浸漆槽中漆的温度应控制至 5-35°C，贮漆罐中漆的温度范围应控制在 5-35°C，漆槽中漆液应经常更新，并免漆液长时间受热，并需配备内外漆槽循环。

During the dipping process, the temperature of the paint in the dipping tank should be controlled to 5-35 °C, the temperature range of the paint in the storage tank should be controlled to 5-35 °C , the paint in the paint tank should be renewed frequently and the paint should be exempted from prolonged heat exposure, and it should be equipped with internal and external paint circulation system.

2.7 供货形式为单组份（对于易闪锈工件可搭配防闪锈剂双组份供货）。

Supplied as one-component package. (For flash rust prone workpieces it can be supplied as a two-component product with a flash rust inhibitor).

2.8 若未按工艺要求操作出现性能及安全问题，本公司一律不承担相应责任。

If performance and safety problems occur owing to not operating in accordance with the process requirements, no liability or responsibility is accepted by our company.