

耐高温聚酰胺绝缘涂料说明书 (LOCK 胶)

High-Temperature Resistant Polyamide Insulating Coating Instructions (LOCK Adhesive)

1 产品特性 Product Features :

该产品具有较强的粘接性能，用来连接音圈导线与音圈外壁，固定导线的位置，防止导线氧化以及与骨架导通，起到定位,绝缘,防护的作用，在常温下容易凝固，成膜耐热温度为 185℃。This product possesses strong adhesive properties, serving to connect the voice coil wire to the outer wall of the voice coil. It secures the wire in position, prevents oxidation of the wire, and ensures electrical continuity with the frame. It functions to position, insulate, and protect. It solidifies readily at room temperature, with a heat-resistant film temperature of 185℃.

2 产品技术指标 Product Technical Specifications:

序号	项目名称 Project Name	技术指标 Technical indicators
1	外观 Appearance	无色透明液体/白色透明膏体 Colourless transparent liquid/White transparent paste
2	固体含量 Solid content	24±1%
3	粘度：NDJ-1 旋转粘 (at25℃)Viscosity: NDJ-1 rotational viscosity (at 25℃)	5000±500 mpa·s
4	有效期 (常温下)Shelf life (at room temperature)	6 个月

5	耐温度 Temperature resistance	185°C
6	防水等级 Waterproof rating	IPX-8

3 成分信息 Ingredient Information

组成分 Composition	成分百分比 Percentage composition (%)
尼龙 Nylon	20-30
酒精 Alcohol	60-80
其他 Other	1-10

4 产品使用指导 Product Usage Guide

(1) 如果涂料的粘度没有达到理想的使用状态，有以下二种方法 If the paint viscosity has not reached the desired working consistency, the following two methods may be employed:

已成膏体的涂料，放入容器中注水加热 (水温控制在 60~70°C)1.5H，直至能明显看到固体膏状胶溶成液体水状即可；操作过程中根据所需粘度,加入适量酒精进行调试后使用。The coating, now in paste form, should be placed in a container, filled with water, and heated (water temperature maintained between 60–70°C) for 1.5 hours until the solid paste-like adhesive is clearly observed to dissolve into a liquid, water-like state. During this process, adjust the viscosity as required by adding an appropriate amount of alcohol before use.

(2) 如果是液态，而又急需使用，可先放入冰箱或冰柜的冷冻室冷冻 1H。（固含量 23%）涂料成糊状即可使用；注意，若冷冻 $\geq$ 2H，涂料成膏状则无法使用。If the product is in liquid form and urgently required, place it in the freezer compartment of a refrigerator or freezer for 1 hour. (Solid content: 23%) The

coating will become paste-like and ready for use. Note: If frozen for ≥ 2 hours, the coating will become paste-like and unusable.

5 储存与使用条件 Storage and Handling Conditions:

①注意储存于清洁、干燥、密封的容器中 (盖盖前,须放好密封圈,如果密封圈损坏,则涂料溶剂挥发更快,更易冻结),可存放于温度 $30^{\circ}\text{C}\sim 40^{\circ}\text{C}$ 的库房中, 保持通风干燥。运输中防止日光曝晒、雨淋等。Store in a clean, dry, sealed container (ensure the sealing ring is correctly positioned before closing the lid; if the sealing ring is damaged, the paint solvent will evaporate more rapidly and become prone to freezing). May be stored in a warehouse at temperatures between 30°C and 40°C , maintaining ventilation and dryness. During transport, protect from direct sunlight and exposure to rain.

②产品裸露于空气中时表面易干燥成膜,所以操作停止时需将针头浸泡在甲醇溶液中, 以免针孔被堵塞。When exposed to air, the product's surface readily dries and forms a film. Therefore, upon cessation of operation, the needle must be immersed in a methanol solution to prevent the needle orifice from becoming blocked.

③产品易形成冻状,此时可将其浸入 $60\sim 70^{\circ}\text{C}$ 的热水中加热,一般都是取 1KG 左右的量加热一个小时,(注意将桶盖子拧开,防止溢出)。在浸泡过程中需防止水份进入涂料中,如有进水, 涂料的面上会浮有一层白色膜状物。The product may

solidify into a frozen state. Should this occur, immerse it in hot water at 60–70°C to thaw. Typically, heat approximately 1kg of product for one hour (ensure the container lid is unscrewed to prevent overflow). During immersion, prevent moisture from entering the coating. Should water ingress occur, a white film will form on the surface of the coating.

④从容器中倒出的涂料尽量一次性用完,使用时注意环境的清洁无尘,避免机械杂质混入涂料。Use up as much of the paint poured from the container as possible in a single application. Ensure the working environment is clean and dust-free to prevent mechanical impurities from contaminating the paint.

⑤使用时, 建议先将涂料点到音圈固定的位置,根据团的大小,需要适当放 1-4 小时,再进高温箱进行烘烤。与音圈烘烤的温度与时间一致。具体的操作客户需根据音圈的大小进行适当调整。按自己试作的工艺达到最佳使用效果。When using the coating, it is recommended to first apply it to the designated position on the voice coil. Depending on the size of the coating, allow it to cure for 1 to 4 hours before proceeding to the high-temperature oven for baking. The baking temperature and duration should be consistent with those used for the voice coil. Customers should adjust the specific process parameters according to the size of the voice coil. Optimal results are achieved by refining the process through trial and error.