

Lozenge shape insulation paper

The product is one kind of insulation material which is painted by specially modified epoxy resin. The products is widely used for layer insulation and turn-insulation of oil immersed transformer, when they are painted and coils are drying, along with the rising temperature, they are melt, and bringing adhering function, with the higher temperature, they become solidify, making winding coil adhere together into one unit. The adhere strength of epoxy resin could avoid to change coil position when electric power short out, so that make sure insulation material in good electric and strength performance. Duing to punctate distribution of resin on lozenge shape insulation paper, making sure oil immersed and gas in insulation material can be removed, avoiding electric short and partial discharge.

Lozenge shape insulation paper is used in oil immersed type transformer, lozenge shape glue must been adhered together with adjacent insulation layer or metal layer, but interspace, making oil get through, also making transformer oil to permeate insulation material, all the permeate insulation material will be more good performance, meantime, the gas in insulation paper will go out through Lozenge shape interspace. The gas is harmful. Except bring away gas, transformer oil mainly make transformer cool.

Simply explain the features of this gluey: Before we did not use DDP, coil was put in insulation glue, making coil become one completely unit, but not caky inside, this method can be easier to the short out and emit heat, besides it will be needed more time to dry. However, DDP is one kind of material which is nonvalent and dry, there is no need to worry about glue together, but when coil is baked , several hous later, material in DDP glue will be effect and occur unique chemical reaction , melt, solidify and glue together, this reaction can not been back , that is to say , even more higher temperature, It will not melt and solidify again, finally coils become one tough unit except sawing off, all the inside material glue toghther without flexible, it will not occur transformer burn off and broken because of some parts flexible and metal shake with higher heat.

规格 Specification

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厚度 thickness	0.05mm, 0.08mm, 0.10mm, 0.13mm, 0.18mm, 0.25mm, 0.38mm, 0.50mm
宽度 width	625mm, 960mm, 1000mm, 1020mm, 1120mm, 1220mm, 1320mm

菱格上胶纸产品标准 Stand for Lozenge shape insulation paper

厚度 thickness (mm)	0.003 0.08	0.005 0.13	0.007 0.18	0.010 0.25	0.015 0.38	0.020 0.50
厚度偏差 (原纸) thickness deviation	±10%					
宽度偏差 (mm) width deviation	±5mm					
紧度 (g/cm ³) tightness	0.9 to 1.1, 所有厚度 all thicknesses					
水分 (%) moisture	4.0 to 8.0%, 所有厚度 all thicknesses					
水萃取液 PH PH of extract liquor	6.0 to 8.0, 所有厚度 all thicknesses					
灰份 (%) ash	最大值 1%					
伸长率 elongation 纵向 (%) lengthways 横向 (%) crosswise	2 4					
未污染变压器油 unpolllute transformer oil	未污染 unpolllute					
抗张强度 tensile strength (N/mm ²) 纵向 lengthways 横向 crosswise	70 35	70 35	80 35	80 35	80 35	80 35
介质击穿 dielectric breakdown (伏, 干试验)	750	1100	1400	2100	2900	3100
每面涂抹厚度 (mm) paint thickness	0.006 - 0.012					
层间结合强度 (Kpa) bond strength	450kpa					

Date of electrolyte follow ASTM D-202, 143section, getting it from test. All the date only stand standard or special date, can not been regard as Max. or Min. date, except there are some special explanation.

Application note

DDP should be stored in not more than 35°C dry, clean and ventilated place, or near the fire source, heating, avoid direct sunlight, storage period of twelve months. Heated to 90°C ± 5°C, maintain 3h after temperature 125 ± 5 °C, keeping the 6h cure conditions.