SINOALUM

Diamond Dotted Insulating Paper

Material Name:

Diamond Pattern Paper, Diamond Dotted Insulating Presspaper, Diamond Dotted p-aper, DDP, Double Sided Dimaond Pattern Paper, DDPP, DPRCP, Diamond Pattern Resin Coated Paper, Varnished Paper Epoxy Adhesive Diamond Paper, Etc

Dimensions:

Thickness(mm):0.08,0.13,0.18,0.25,0.38,0.50
Width (mm):500.625,810,960,1000,1100,1219,1300,
We also can produce Width of
DDP according to customer's requirements
Reel Diameter: 300-360mm
Can Core Diameter 76±2mm

Store:

- Store condition: Should store , in do not exceed 35° is dryed , clean with ventilate good place, must not avoid sunlight near fiery source and warm wind direct
- Storage time: 12 months under normal temperature.

Diamond pattern paper made of Kraft paper coated with heat curable epoxy resin.The epoxy adhesive is applied to both sidesof the paper in a diamond pattern consisting of 9.5mm x9.5mm diamonds with 15.9mm center spacing.The Diamond dotted Paper is to be used in oil-immersed transformers for the insulation between of coils. On the insulation layer, there is a layer dotted epoxy resin that will be changed with high temperature change that is to be called as felt.It is a kind of material with inertia, dry and no conglutination at normal temperature (below 30℃)

- The Diamond Dotted Paper (DDP)will make the electric condctor forever felt up as a hard unit under the high temperature by its internal latency substance
- When the temperature is rising up to 90℃, The Diamond Pattern Paper (DDP)begins one-off thaw and then one-off solidification. When to keep the temperature at 90℃ for 90 minutes, the epoxy resin would paste on neighboring cable and paper safely. The felt intensity is as high as to 70 psi at 100℃.(The value at least is equal to 0.450Mpa) (IEC standard)

Specifications:

Caliper:(inch)	0.003	0.005	0.007	0.010	0.015	0.020
(millimeter)	0.08	0.13	0.18	0.25	0.38	0.50
Thickness tolerance:±mm (±10%)	0.005	0.013	0.018	0.025	0.038	0.05
Width tolerance:	±5mm,all thicknesses					
Apparent density: g/cm3	0.9 to 1.1, all thicknesses					
Moisture content ,%	6.0 to 10.0%, all thicknesses					
PH water extract	6.0 to 8.0, all thicknesses					
Ash content, %	1% maximum					
Elongation MD %	4					
CMD	9					
No-pollution oil of transformer	Non-pollution					
Coating thickness per side mm	0.006 to 0.012					
Tear strength, g Machine direction Cross machine direction	55 70	100 145	140 210	220 370	410 600	440 700
Tensile strength,N/mm2 Machine direction Cross machine direction:	90 30	90 25	80 35	90 35	92 35	95 35
Mullen burst strength: min (Psi)	40	65	90	150	200	300
Dielectric breakdown: (volts/layer ,dry test)	750	1300	1700	2100	3000	3300
Dielectric breakdown (kilovolts/layer, oil test)	5.5	8.5	10.5	14.0	20.0	23.5
Bond strength: Psi	Minimum 40 psi shear strength, tested at 100 degrees					
Kpa	450kpa					