



Diamond Dotted Insulating Paper Data Sheet

The Diamond Dotted Paper (DDP) is used for coil insulation in oil immersed transformers; It's made of Kraft paper coated with heat curable epoxy resin. The epoxy adhesive is applied to both sides of the paper in a diamond pattern consisting of 9.5mm x9.5mm diamonds with 15.9mm center spacing.

It is a kind of material with inertia, dry and no conglutination at normal temperature (below 30 °C), The Diamond Dotted Paper (DDP) will make the electric conductor forever felt up as a hard unit under the high temperature by its internal latency substance. When the temperature is rising up to 90 °C, The Diamond Pattern Paper (DDP) begins one-off thaw and then one-off solidification. When to keep the temperature at 90 °C for 90 minutes, the epoxy resin would paste on neighboring cable and paper safely. The felt intensity is as high as to 70psi at 100 °C. (The value at least is equal to 0.450Mpa) (IEC standard)

The material is also known as DDOO, DPRCP, etc

DIMENSIONS:

THICKNESS (mm) : 0.08,0.13 ,0.18, 0.25, 0.38 ,0.40,0.50

WIDTH (mm) : 500, 625, 810, 960, 1000,1100,1219,1300

Item	unit	Specificatio	Specificatio	Specification	Specificatio
thickness	mm	0.13±0.005	0.25±0.01	0.40±0.01	0.50±0.01
Apparent density	g/cm ³	0.85-1.1			
Adhesive thickness(Single side)	μm	6-12			
Moisture content	%	4.0-8.0			
Ash content	%	1.0			
Electrical conductivity of water extract	ms/m	10			
pH of water extract		6.5-8.5			
Oil absorbtion	%	20			
Bondstrength	Room temperature	Mpa	600		
	In oil at 100°C, 90minutes		400		
Tensile strength	MD	N/10mm W.	110	230	230
	CD		50	100	100
elongation	MD	%	2.0		
	CD		4.0		
Tear strength	MD	mN	900	2000	2000
	CD		1300	2300	2300
Folding strength average of MD and	Times		1400	2700	4100
Electrical strength	in air	KV	1.37	2.25	2.25
	in oil		7	11.5	11.5