

NOMEX® BRAND PRESSBOARD

TECHNICAL DATA SHEET

Applications in transformers

Angle Rings and Caps

insulate windings from each other, from the core, and from the tank. Angle rings and caps manufactured from NOMEX[®] can be placed close to the winding permitting higher operating temperatures with reduced clearances.

Support Washers

are used both as mechanical support and as major insulation from winding to ground. By replacing those washers closest to the core with NOMEX[®], support washers will withstand increased temperatures.

Conductor Insulation

is used as turn insulation to insulate turns from each other. Because it is located close to the conductor, it experiences the highest temperatures and usually becomes the limiting insulation component. Conductor insulation produced from NOMEX® paper allows the windings to be operated over wider temperature ranges.

Cylinders

function as structural support for the winding and as major insulation from winding to winding and winding to ground. NOMEX® brand products have high mechanical strength, high heat resistance and improved electrical properties which make them ideal for cylinders closest to the winding.



Static Rings

equalize stress in and around high voltage windings and grounded components, such as core legs and yokes, permitting reduced clearances. Static rings made from NOMEX® withstand higher temperatures than cellulose insulation.

Axial and Radial Spacers

provide mechanical support and direct oil flow. Spacers manufactured from NOMEX® pressboard should be used near the winding as they offer higher dielectric strength, higher compressive strength, and higher temperature capability.



Applications in rotating apparatus

V-Rings

are the insulation between the commutator bars and the motor shaft. V-Rings of NOMEX® brand pressboard are formed from single sheets and, as a result, demonstrate increasing electrical and mechanical strength, as well as simplify the manufacturing process.

Wedges

are driven into retaining grooves in order to hold the windings in the armature slot. Their design ensures maximum, safe, high speeds in the armature. The high mechanical strength and compression resistance characteristic of NOMEX® pressboard provides greater reliability in this application.

Spools

are the structural insulation component where field coils are wound. With the coils wound on a spool, a rigid frame permanently insulates the coils from grounds and stops any chafing caused by motor vibration. The formability of NOMEX[®] increases product integrity and simplifies the design of the spools.

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Product safety information is available upon request

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H-93480 05/02 Printed in U.S.A.

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Slot Liners

are the insulation between the windings and the walls of the armature slots. Additionally, slot liners facilitate the insertion of the windings into the slots during the assembly process.

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