CLASSIFICATION ON THE BASIS OF OPERATING TEMPERATURE

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CLASS ‘Y’ INSULATION - 90 ºC

CLASS ‘A’ INSULATION - 105 ºC

CLASS ‘E’ INSULATION - 120 ºC

CLASS ‘B’ INSULATION - 130 ºC

CLASS ‘F’ INSULATION - 155 ºC

CLASS ‘H’ INSULATION - 180 ºC

CLASS ‘C’ INSULATION - >180 ºC

CLASS ‘Y’ INSULATION

Material if un-impregnated fall in this category with operating temperature up to 90 ºC. e.g. paper, cardboard, cotton, poly vinyl chloride etc.

CLASS ‘A’ INSULATION

Insulators of class Y when impregnated fall in class A with operating temperature of about 105 ºC.

CLASS ‘E’ INSULATION

Insulation of this class has operating temperature of 120 ºC. Insulators used for enameling of wires fall in this category. e.g. pvc etc.

CLASS ‘B’ INSULATION

Impregnated materials fall in class B insulation category with operating temperatures of about 130 ºC. e.g. impregnated mica, asbestos, fiber glass etc.

CLASS ‘F’ INSULATION

Impregnated materials, impregnated or glued with better varnises e.g. polyurethane, epoxides etc. fall in this category with operating temperature of about 155 ºC.

CLASS ‘H’ INSULATION

Insulating materials either impregnated or not, operating at 180 ºC fall in this category. e.g. fiberglass, mica, asbestos, silicon rubber etc.

CLASS ‘C’ INSULATION

Insulators which have operating temperatures more than 180 ºC fall in class C insulation category. e.g. glass, ceramics, poly tera fluoro ethylene, mica etc.