



OVDT-VPI Dry type Transformers



Prolec GE open ventilated dry type VPI transformers in technical collaboration with DUPONT™, meet applicable IS/IEC® standards. With high voltages up to 22kV and ratings up to 2500 kVA, these transformers are designed for indoor/outdoor installation and provide reliable power for power distribution at domestic as well as Industrial Applications. High-grade materials, combined with sophisticated engineering design systems, are key elements of a transformer that will deliver years of highly reliable service.

Material

- The major insulating material of the transformer is aromatic polyamide paper and board manufactured on the proprietary technology of DuPont.
- The high voltage windings use -DUPONT™ NOMEX® paper wrapped high-conductivity magnet wire. The low voltage windings use either NOMEX® paper wrapped high conductivity wire or copper foil with NOMEX® paper as inter-layer insulation.
- The core uses high-quality grain-oriented silicon steel laminates.

Highlights of technology

- The high and low voltage windings are compactly wound to increase rigidity
- The technology eliminates the use of epoxy resin. Instead, it uses vacuum pressure impregnation followed by thermal curing to assure good electrical and mechanical performances including the ability to withstand mechanical shocks from abrupt and wide temperature changes.
- The NOMEX® paper insulation and application of varnish by VPI with thermal curing makes the windings resistant to dust, humidity and pollutants.
- The electrical design criteria used in these transformers are calculated to be free of partial discharge thus eliminating a major source of insulation failure over longer time frames typical in cast resin transformers.

Reliability

- The transformer meets or exceeds the international standards of IEC 60076-11 & IS 11171-1985.
- The thermal and electrical insulation performances of the transformer are designed and rated at thermal class H (withstand up to 180 deg C), while the major insulating material NOMEX®, is rated at thermal class index R (withstand up to 220 deg C). Thus there is a large safety margin in the transformer design and hence, increase in reliability.
- Able to operate under harsh climatic and environmental conditions.
- Able to operate in outdoors with proper protection.
- Able to withstand power overload.
- Has good short circuit capability. Maintenance free under normal operation.

Environmental friendly

- No pollution is created during manufacture, transportation, storage and operation of transformers.
- The transformer can be recycled at the end of its life span and will not pollute the environment.
- The sound level of the transformer is low.

Quality

- The Indo Tech transformers facility has been certified to meet ISO 9001 quality standards.
- The windings facility is dust and moisture free.
- There is a 2-year quality guarantee on these transformers.

Safety

- NOMEX®, which forms the major insulating material in the transformer, has superior flame resistance property as compared to other insulating materials. NOMEX® material will not support combustion up to 250 deg C in air, and will not release toxic gases or substances when exposed to fire. Thus the transformer will not support combustion in air.
- The flame resistance of DUPONT™ NOMEX® insulation materials have been certified by testing bodies around the world and given the highest classification for flame resistance, including

UL (USA)	94V-0
NF F16-101/102(FRANCE)	M1/F1
CSE RF 2/75A(ITALY)	Class 1

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